This document is intended for installers, set-up technicians and IT professionals of Trellix products.

Important: Engage appropriate network security professionals to ensure all control system hardware and servers are secure for access.

Network security is an important issue. Typically, the IT organization must approve configurations that expose networks to the Internet. Be sure to fully read and understand customer IT Compliance documentation.

COOPER Lighting Solutions

⚠ WARNING

Read all the instructions thoroughly before installing this product.

This manual provides information on the installation and operation of Trellix Locate. For proper operation it is important to follow the instructions.

The purpose of this document is to provide sufficient instructions for third-party application development using the Trellix Locate API.

Contents

1 – About this Document

This document describes the features and use of the Trellix Locate API.

1.1 – Assumptions

The information and procedures in this document assume that

- Trellix Core has been physically installed and connected to one or more WaveLinx networks
- You have a Trellix Core account that is authenticated to access the Locate Published API (i.e., the "Third Party Integration" or "System Administrator" role has been assigned to the account)
- The Locate Published API has been enabled and correctly configured under System in the Trellix Admin app (refer to "Configuring the Published APIs" in the *Lighting System Configuration Guide* for configuration details)
- You have access to the exported Published ID data listed below (refer to "Configuring the Published APIs" in the *Lighting System Configuration Guide* for details on exporting):
  - UUID, Object Type, Name, and Identifier values for Tags and Assets

Notes

- *See* Published ID Export and Import *for an example of exported Locate data*
- *The Locate API does not support WaveLinx Wired*

1.2 – Using this Manual

Use this manual to discover and use the API calls you need to build applications that rely on the exposed Trellix Locate data.

1.3 – Key Terms

The terms listed below are used in this document.

- **Application Programming Interface (API)** – An interface or communication protocol between a client and a server intended to simplify the building of client-side software
- **Bluetooth Low Energy (BLE)** – A wireless personal area network technology aimed at novel applications in industries such as healthcare, fitness, security, and home entertainment.
- **Wireless Area Controller (WAC)** – An application that coordinates the WaveLinx Mobile App with various WaveLinx devices to provide lighting zone configuration, monitoring, and control (also referred to as "Controller" or "Area Controller")

1.4 – What's New

The following changes have been made in this release:

- Tag data (e.g., X,Y location, telemetry) is now available through the API without having to assign the Tag to an Asset in Trellix Locate

1.5 – Related Documentation

Refer to the documents listed below for additional information.

Document	Description
Trellix Locate User Manual	Covers the normal use of a Trellix Locate system.
Trellix Lighting System Configuration Guide	Describes processes and procedures relevant to a Trellix Locate system, such as user accounts and API configuration.

2 – Introduction

With the rapid adoption of connected lighting systems, real-estate management organizations are gaining new levels of insight thanks to a substantial increase in the available operating data. Most large real-estate management companies are developing applications that allow them, and their tenants, to leverage this new data to improve their operations.

Cooper Lighting Solutions ("Cooper") has developed APIs to manage the data generated by the lighting system – including energy, occupancy, and asset location. A subset of these APIs is made available to empower third-party systems to access data on Cooper systems. It is Cooper's vision to continue making more APIs available. There are two categories of APIs: Lighting APIs for lighting-specific data, and Location APIs for location-specific data.

2.1 – Trellix Location Data

When a Trellix Locate system is configured, physical BLE (Bluetooth Low Energy) tags are mapped to digital assets, and these assets are assigned to departments. In addition, geographical zones known as geo-fences are created using building floor maps, enabling asset movement to trigger alarms and generate events.

Familiarity with the concepts that follow will make you more effective and efficient when programming with the Trellix Locate API.

Components of a Trellix Locate System

The components of a building hierarchy are as follows:

- A **Tag** is the fundamental unit of any location system, a BLE device that broadcasts its position. The properties of a tag include a MAC Address and a Name.
- An **Asset** is the digital representation of a Tag. Assets are created when the system is configured, and tags are then assigned to those Assets.
- A **Department** manages user access to a collection of assets and the data they generate.
- A **Geo-fence** is a digital representation of a physical space. It detects tags that crossing its boundaries, and generates alarms and events based on those movements.

2.2 – Hypertext Transfer Protocol (HTTP)

The Trellix Locate API provides a secure programming interface to the Trellix asset location data. It offers a REST API, meaning it is accessed using the communication standards of the Web:

- The HTTP (Hypertext Transfer Protocol) protocol, specifically GET and POST commands
- A defined set of URLs
- Each URL represents a specific type of resource, such as a device or an occupancy set

2.2.1 – HTTP Messages

An HTTP message consists of a request or response line, which appears first, and header fields in the lines that follow. Here is an example of the GET request line:

```
GET /v2/rtls/public/tags/display HTTP/1.1
```

Each header field appears on a separate line as a clear-text name-value pair, separated by colons. The line is terminated by a carriage return (CR) and line feed (LF) character sequence. For example:

```
Host: 192.168.2.100
Authorization: bearerf65f997a-6812-4c64-876b-dec7ad7d540a
Content-Type: application/json
```

The Trellix Locate API uses both GET and POST requests. To learn more, refer to this *List of HTTP header Fields*.

2.3 – Working with the Trellix Locate API

This section provides a high-level view of how you can work with the Locate API.

2.3.1 – Categories of Data

Trellix Locate API calls are divided into the following categories, according to the type of data they return:

- **Configuration** – Information about how Trellix locate is configured, such as a list of all configured tags or a list of geo-fences by type.
- **Operating** – Alarms and events generated as the system is operating.
- **Real-Time Operating** – The most current available asset location information.
- **Historical** – Location and button press activity that has been logged.

2.3.2 – A Typical Session

A typical session might look something like the following:

1. A *Get Login Token* call is made to gain access to the API.
2. A *Get API Enabled Status* call is made to confirm the system is running and enabled.
3. A *Get All Geo-Fence Alarms – Identity List* call is made to determine the current alarms.
4. For each element in the returned alarms list, a *Get a Single Asset by ID – Detail List* call is made using the `sourcePublicId` value.
5. A detail report of all assets with geo-fence alarms is generated.

NOTE
The Locate API also offers real-time access to operating data using JSON-RPC with TCP Socket or a REST Endpoint. See Realtime Operating Data Using TCP Socket and REST *for details.*

2.3.3 – Published ID Export and Import

Trellix Locate supports the export and import of Tag and Asset Published ID data to facilitate communication with third-party systems. The Published ID template can be downloaded, edited, and then uploaded back into Trellix Locate to align the Trellix Asset IDs with those of the external system. See the "Published API for Locate Data" topic in *Trellix Lighting System Configuration Guide* for information.

Example

UUID	Object Type	Name	Identifier
a6356395-65c6-49d9-9a9c-0fa2eac37562	Asset	ADSYS_Battery	Battery_18
0b54db86-e3f3-4a09-a98a-266a51db4097	Asset	ADSYS_Button	Button_18
e6989154-9b69-4520-b0df-45ed7203e4b5	Asset	ADSYS_Small	Small_18
ddd6172b-10c0-4a9a-87d4-5a25fab26a02	Asset	QPSYS_Battery	Battery_7
4824fadb-2d4c-41df-8498-788fc35bbc3d	Asset	QPSYS_Button	Button_7
d2f015fd-047d-4007-80bb-5d01ad4b7a8a	Asset	QPSYS_Small	Small_7
b8f4d1bb-f998-4d77-ba1d-911393fe595b	Tag	tag_2646D6	tag_2646D6
1a1c5bc3-8693-4e2b-a5f0-946c6af5366c	Tag	tag_2646D9	tag_2646D9
7c0e63f7-1778-4e6f-8119-fb20c79dd47f	Tag	tag_26473D	tag_26473D
62a3ea85-36ed-4ca4-9e4e-aec5d8a5298a	Tag	tag_26473E	tag_26473E
4ae1df4e-80eb-4bc3-91c3-307b1f97992c	Tag	tag_26473F	tag_26473F
44e220c7-0232-4c6c-8740-9525b524d9a7	Tag	tag_264740	tag_264740
2b4e9695-f00b-4775-b030-93b59b4ceb3e	Tag	tag_264741	tag_264741

NOTE
Geo-Fence IDs are not included in the exported Published IDs and are called by their UUID, which can be obtained with the Geo-Fence by ID – Detail List *call.*

2.3.4 – Authentication

Before you can access any Locate system data, you must authenticate your account. This will generate an API token you can use for further requests, such as getting the real-time location of an asset or the event history for an asset type.

API Token

An API token is a string of text that acts as a unique, single-session identifier for an application requesting access to the Locate API. For example, `e55d3f8f-f1e2-41a8-9250-d6574f49387d`.

To authenticate, you send an HTTP POST with the username “APIUser” (not case-sensitive) and a password configured by the Trellix administrator. For example:

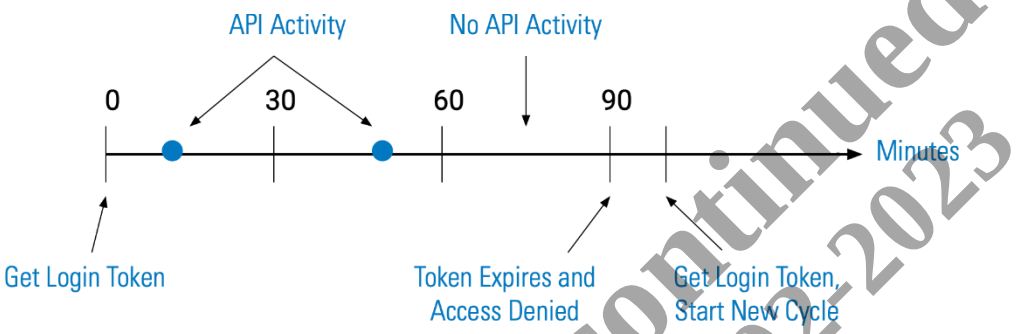
```
https://192.168.1.99/uaa/oauth/token?grant_type=password&password=myAPIPassword&username=APIUser
```

The Locate API will return an access token you can use for subsequent requests.

Login Duration

When a successful Get Public Login Token call is made, access will be granted using that token for a minimum of 30 minutes. Trellix monitors for API activity in 30-minute windows after granting access. As long as one or more API calls are made within each window, Trellix will maintain access with the original token for up to two hours (four 30-minute periods).

If there is no API activity in a 30-minute window, or when the two-hour maximum is reached, the token is revoked and access denied until a new Get Public Login Token call is made. The diagram below shows an authentication cycle where a Login Token is granted and followed by API activity in two successive 30 minutes period. Because there is no activity between 60 and 90 minutes, the token expires, and a new Get Login Token request must be made.



To avoid having access denied, the Get Refresh Token call can be used before the current token expires. This will extend the cycle and maintain access for up to two more hours.

We recommend issuing a Get Refresh Token call just before the each 30-minute window. This will provide continuous access to Trellix, and future-proof your application should the maximum time be reduced from the current two hours.

2.3.5 – Response

The response to a Trellix Locate API call will include an HTTP status code and a body. A successful call will return a status of 200, and the body will contain the requested Trellix data in JSON (JavaScript Object Notation) format. JSON is a simple and popular way to represent plain and structured data - such as booleans, arrays and objects - in plain text. For a brief introduction to JSON, see the *JSON.org* Web site. For the detailed specification, see the *JSON Schema*.

Example

The JSON below represents an array of tag objects in response to an All Tags Identity List call.

```
[
    {
        "name": "tag_A14C12",
        "inventoryId": "tag_A14C12",
        "macAddress": "A14C12"
    },
    {
        "name": "tag_A10E7D",
        "inventoryId": "tag_A10E7D",
        "macAddress": "A10E7D"
    }
]
```

2.3.6 – Response Data Types: Detail, Display, and Identity

The three views or list types of Trellix data found in most Locate API responses are described below.

Detail
Returns all available properties exposed by the requested object.

Display
Returns commonly used properties exposed by the requested object.

Identity
Returns unique identification properties exposed the requested object.

3 – Login and Authentication Calls

The API calls below are used to start a Locate API session by generating the token required to use all other API requests.

3.1 – Get Login Token

This POST request returns an access token and its type.

NOTE
The token will expire after 30 minutes of inactivity.

HTTP Header Fields

```
POST /uaa/oauth/token HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: Basic ZWF0b24tY2xpZW50OkFDdHZRQzFoSE4=
Content-Type: application/x-www-form-urlencoded
Cache-Control: no-cache
```

POST Request Structure

```
https://<HOST-IP>:<HOST-PORT>/uaa/oauth/token?grant_type=password&username=<TRELLIX-
USER>&password=<TRELLIX-PASSWORD>
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Optional, defaults to 443 for secure (https) connections.
- `<TRELLIX-USER>` - A Trellix account with Locate API access.
- `<TRELLIX-PASSWORD>` - The password for the Trellix account with Locate API access.

Request Example

```
https://192.168.2.100/uaa/oauth/token?grant_type=password&username=APIUser&password=TrellixPass
```

JSON Body Example

```
{
    "access_token": "1fd7b890-6012-4e04-b8ca-b39933b40698",
    "token_type": "bearer",
    "refresh_token": "6432e8b9-4398-4012-8f85-788965976f05",
    "expires_in": 1160,
    "scope": "openid",
    "user": {
        "updatedBy": "118481f0-7d3a-49dd-b0b4-81371cc17a22",
        "updatedTime": "2019-09-11T09:41:07.316-0400",
        "createdBy": "118481f0-7d3a-49dd-b0b4-81371cc17a22",
        "createdTime": "2019-09-11T09:38:59.971-0400",
        "id": "d8671070-cc7a-4e81-9357-6ca32f6158fd",
        "userName": "APIUser",
        "roles": [
            {<ROLE-DATA>},
            {<ROLE-DATA>}
        ],
        "authInfo": {<AUTH-DATA>},
        "areaOfResponsibilityType": "ALL",
        "departmentOfResponsibilityType": "PARTIAL",
        "departments": [<DEPT-DATA>],
        "isLdap": false,
        "isDefault": false,
        "isClosed": false,
        "isRegPortalNotify": true
    }
}
```

JSON Response Values

Using `ro` as the Get Public Login JSON response object in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ro.access_token`	String	`1fd7b890-6012-4e04-b8ca-b39933b40698`	Authentication token you must provide in subsequent API calls.
`ro.refresh_token`	String	`6432e8b9-4398-4012-8f85-788965976f05`	Authentication refresh token.
`ro.expires_in`	Number	`1160`	Number of seconds before `respBody.access_token` expires.

3.2 – Get Refresh Token

This POST request, which only works during an active login session, returns an updated access token to extend the login period by 30 minutes.

HTTP Header Fields

```
POST /uaa/oauth/token HTTP/1.1
Authorization: Basic ZWF0b24tY2xpZW50OkFDdHZRQzFoSE4=
Content-Type: application/x-www-form-urlencoded
Cache-Control: no-cache
```

POST Request Structure

```
https://<HOST-IP>:<HOST-PORT>/uaa/oauth/token
```

Where:

- `<HOST-IP>` – IP address of the Trellix Lighting API server, defaults to 192.168.2.100
- `<HOST-PORT>` – IP port on the Trellix Lighting API server, optional and defaults to `443` for secure (https) connections

Request Example

```
https://192.168.2.100/uaa/oauth
```

JSON Body Example

```
{
    "access_token": "d6c621c2-a138-409b-ab11-8b096c103dad",
    "token_type": "bearer",
    "refresh_token": "d1256b8b-39ef-4cb0-bfc9-0691c8954471",
    "expires_in": 7199,
    "scope": "openid",
    "user": {
        "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
        "updatedTime": "2019-12-06T11:04:53.737-0500",
        "createdBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
        "createdTime": "2019-12-06T11:03:44.484-0500",
        "id": "a81b3226-868e-469e-8c43-b4aa50f456ad",
        "userName": "LightingAPI",
        "roles": [
            {
                "createdBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
                "createdTime": "2019-11-28T09:40:44.676-0500",
                "id": "56be369b-7acc-4d68-a815-39d58d026b55",
                "name": "Third Party Integration",
                "permissions": [
                    {
                        "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
                        "updatedTime": "2019-11-28T09:40:45.488-0500",
                        "createdBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
                        "createdTime": "2019-11-28T09:40:44.676-0500",
```

```
                    "id": "977c979b-c42c-409d-8ede-6ecd3415e8ed",
                    "name": "View Only",
                    "application": {
                        "id": "46779fe5-204f-44bf-984b-157dd148f5c8",
                        "shortName": "LXI",
                        "active": true,
                        "isActive": true,
                        "isEnabled": true
                    },
                    "identifier": "LXI_View_Only"
                },
                {
                    "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
                    "updatedTime": "2019-11-28T09:40:45.488-0500",
                    "createdBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
                    "createdTime": "2019-11-28T09:40:44.676-0500",
                    "id": "4bf22b74-e1e5-49d4-a746-90b5200c5421",
                    "name": "Manual Action",
                    "application": {
                        "id": "46779fe5-204f-44bf-984b-157dd148f5c8",
                        "shortName": "LXI",
                        "active": true,
                        "isActive": true,
                        "isEnabled": true
                    },
                    "identifier": "LXI_Manual_Action"
                },
                {
                    "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
                    "updatedTime": "2019-11-28T09:40:45.488-0500",
                    "createdBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
                    "createdTime": "2019-11-28T09:40:45.488-0500",
                    "id": "639e7237-7fb9-4678-aca3-9c7c95dfda0d",
                    "name": "View Only",
                    "application": {
                        "id": "4b237de7-a393-4a48-97d1-f697f50bcd0c",
                        "shortName": "BXI",
                        "active": true,
                        "isActive": true,
                        "isEnabled": true
                    },
                    "identifier": "BXI_View_Only"
                },
                {
                    "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
                    "updatedTime": "2019-11-28T09:40:45.488-0500",
                    "createdBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
                    "createdTime": "2019-11-28T09:40:45.488-0500",
                    "id": "780434c7-7ce0-4a59-9252-261611959db6",
                    "name": "Lighting API",
                    "application": {
                        "id": "4b237de7-a393-4a48-97d1-f697f50bcd0c",
                        "shortName": "BXI",
                        "active": true,
                        "isActive": true,
                        "isEnabled": true
                    },
                    "identifier": "LXI_API_Access"
                }
            ],
            "application": {
                "id": "46779fe5-204f-44bf-984b-157dd148f5c8",
                "shortName": "LXI",
                "active": true,
                "isActive": true,
                "isEnabled": true
```

```
                },
                "isDefault": true
            }
        ],
        "authInfo": {
            "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
            "updatedTime": "2019-12-06T11:03:44.483-0500",
            "createdBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
            "createdTime": "2019-12-06T11:03:44.484-0500",
            "id": "c4462bd4-8ec7-4d1d-a76b-755b3c00c983",
            "passwordExpires": false,
            "policy": {
                "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
                "updatedTime": "2019-11-28T09:40:44.676-0500",
                "createdBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
                "createdTime": "2019-11-28T09:40:44.676-0500",
                "id": "ef89498b-cea8-43f8-a87d-443819adbe06",
                "expiryDuration": 7776000000,
                "reuseLimit": 10,
                "maximumLength": 16,
                "minimumLength": 8,
                "minimumNumber": 1,
                "minimumSpecial": 1,
                "minimumUpper": 1
            },
            "isLocked": false,
            "daysToExpiry": -1,
            "isExpired": false
        },
        "areaOfResponsibilityType": "PARTIAL",
        "departmentOfResponsibilityType": "PARTIAL",
        "departments": [
            {
                "id": "09455979-25b6-4260-b0ec-12a2df2b1a37",
                "name": "Default"
            },
            {
                "id": "ee38e32d-b3d1-4c85-86e8-04dde3e510cd",
                "name": "Default"
            },
            {
                "id": "c054738c-63dc-431d-8a0c-0614cf325d2c",
                "name": "Default"
            }
        ],
        "isLdap": false,
        "isDefault": false,
        "isClosed": false,
        "isRegPortalNotify": true
    }
}
```


Using `ro` as the Get Refresh Token JSON response object in the example above, the relevant values are described below.

Property	Value	Description
`ro.access_token`	`54ea09cb-dbea-45ad-836b-8b1436bcebdc`	Authentication token you must provide in subsequent API calls.
`ro.refresh_token`	`b67c9076-2565-4f18-a657-982e15d2725a`	Authentication refresh token.
`ro.expires_in`	`4746`	Number of seconds before `respBody.access_token` expires.

3.3 – Log Out

This POST request logs out an authenticated user.

HTTP Header Fields

```
POST /uaa/logout HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: Basic ZWF0b24tY2xpZW50OkFDdHZRQzFoSE4=
Content-Type: multipart/form-data;
Cache-Control: no-cache
```

POST Request Structure

```
https://<HOST-IP>:<HOST-PORT>/uaa/logout
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Optional, defaults to 443 for secure (https) connections.

Request Example

```
https://192.168.2.100/uaa/logout
```

JSON Body Example

No JSON data is returned for this call.

3.4 – Get Locate API Enabled Status

Returns `true` or `false` based on Locate API availability.

HTTP Header Fields

```
GET /v2/rtls/public/api/enabled HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```


GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/api/enabled
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/api/enabled
```

JSON Body Example

```
true
```

4 – Configuration Calls

This chapter describes API calls that return configuration data, such as a list of tags or the configuration details of an asset.

4.1 – Get All Tags

This section contains API calls to obtain a list of all tags on the network.

4.1.1 – All Tags - Detail List

Returns a detail list of all configured tags.

HTTP Header Fields

```
GET /v2/rtls/public/tags/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/tags/detail
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/tags/detail
```

JSON Body Example


```
[
    {
        "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
        "updatedTime": "2019-09-10T08:28:36.272-0400",
        "createdTime": "2019-08-26T15:22:16.537-0400",
        "name": "tag_A10D8B",
        "type": {
            "isDefault": false,
            "name": "Human Badge"
        },
        "batteryLevel": 95.0,
        "inventoryId": "tag_A10D8B",
        "beaconRateMotion": 1000,
        "beaconRateStatic": 3000,
        "model": "C7",
        "isRegistered": false,
        "isAssigned": false,
        "macAddress": "A10D8B"
    },
    {
        "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
        "updatedTime": "2019-09-05T13:40:04.246-0400",
        "createdTime": "2019-08-26T13:31:11.210-0400",
        "name": "tag_2646D9",
        "type": {
            "isDefault": false,
            "name": "Human Badge"
        },
        "batteryLevel": 100.0,
        "inventoryId": "tag_2646D9",
        "beaconRateMotion": 1000,
```

```
        "beaconRateStatic": 3000,
        "model": "C7",
        "isRegistered": true,
        "isAssigned": true,
        "macAddress": "2646D9"
    }
]
```

JSON Response Values

Using `ra` as the All Tags - Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	N/A	An object whose properties describe a tag.
`ra[INDEX].updatedBy`	String	`69add548-ec7c-49ba-aec1-0cabb5e2238c`	The access token used to update this tag.
`ra[INDEX].updatedTime`	String	`2019-09-10T08:28:36.272-0400`	The time this tag was most recently updated.
`ra[INDEX].createdTime`	String	`2019-08-26T15:22:16.537-0400`	The time this tag was created.
`ra[INDEX].name`	String	`tag_A10D8B`	The name assigned to the tag.
`ra[INDEX].type`	Object	`N/A`	An object whose properties describe the tag type.
`ra[INDEX].type.isDefault`	Boolean	`false`	Whether this is one of the default tag types.
`ra[INDEX].type.name`	String	`Human Badge`	The name of this tag type.
`ra[INDEX].batteryLevel`	Number	`95.0`	The battery charge level.
`ra[INDEX].inventoryId`	String	`tag_A10D8B`	The inventory ID (Published ID) value assigned to the tag.
`ra[INDEX].model`	String	`C7`	The model of tag.
`ra[INDEX].isRegistered`	Boolean	`false`	Whether the tag is enabled and subject to license limits.
`ra[INDEX].isAssigned`	Boolean	`false`	Whether the tag is assigned to an asset.
`ra[INDEX].macAddress`	String	`A10D8B`	The MAC ID of the tag.

4.1.2 – All Tags - Display List

Returns a display list of all configured tags.

HTTP Header Fields

```
GET /v2/rtls/public/tags/display
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/tags/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/tags/display
```

JSON Body Example


```
[
    {
        "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
        "updatedTime": "2019-09-10T08:28:36.272-0400",
        "name": "tag_A10D8B",
        "type": {
            "isDefault": false,
            "name": "Human Badge"
        },
        "batteryLevel": 100.0,
        "inventoryId": "tag_A10D8B",
        "model": "C7",
        "isRegistered": false,
        "isAssigned": false,
        "macAddress": "A10D8B"
    },
    {
        "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
        "updatedTime": "2019-09-05T13:40:04.246-0400",
        "name": "tag_2646D9",
        "type": {
            "isDefault": false,
            "name": "Human Badge"
        },
        "batteryLevel": 80.0,
        "inventoryId": "tag_2646D9",
        "model": "C7 ",
        "isRegistered": true,
        "isAssigned": true,
        "macAddress": "2646D9"
    }
]
```


JSON Response Values

Using `ra` as the All Tags - Display List response array in the example above, the relevant values are described below.

Property	Data Type	Example Value	Description
`Ra[INDEX]`	Object	`N/A`	An object whose properties describe the tag.
`ra[INDEX].updatedBy`	String	`69add548-ec7c-49ba-aec1-0cabb5e2238c`	The access token used to update this tag.
`ra[INDEX].updatedTime`	String	`2019-09-10T08:28:36.272-0400`	The time this tag was updated.

Property	Data Type	Example Value	Description
ra[INDEX].name	String	tag_A10D8B	The name assigned to the tag.
ra[INDEX].type	Object	N/A	An object whose properties describe the tag type.
ra[INDEX].type.isDefault	Boolean	false	Whether this is one of the default tag types.
ra[INDEX].type.name	String	Human Badge	The name of this tag type.
ra[INDEX].batteryLevel	Number	100.0	The percentage charge of the tag's battery.
ra[INDEX].inventoryId	String	tag_A14C12	The inventory ID (Published ID) value assigned to the tag.
ra[INDEX].model	String		
ra[INDEX].isRegistered	Boolean	false	Whether the tag is enabled and subject to license limits.
ra[INDEX].isAssigned	Boolean	false	Whether the tag is assigned to an asset.
ra[INDEX].macAddress	String	A10D8B	The MAC ID of the tag.

4.1.3 – All Tags - Identity List

Returns an identity list of all configured tags.

HTTP Header Fields

```
GET /v2/rtls/public/tags/identity HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/tags/identity
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/tags/identity
```

JSON Body Example

```
[
    {
        "name": "tag_A14C12",
        "inventoryId": "tag_A14C12",
        "macAddress": "A14C12"
    },
    {
```

```
        "name": "tag_A10E9D",
        "inventoryId": "tag_A10E9D",
        "macAddress": "A10E9D"
    },
    {
        "name": "tag_A10E7D",
        "inventoryId": "tag_A10E7D",
        "macAddress": "A10E7D"
    }
]
```

JSON Response Values

Using `ra` as the All Tags - Identity List response array in the example above, the relevant values are described below.

Property	Data Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object whose properties describe a tag.
`ra[INDEX].name`	String	`tag_A14C12`	The name assigned to the tag.
`ra[INDEX].inventoryId`	String	`tag_A14C12`	The inventory ID (Published ID) value assigned to the tag.
`ra[INDEX].macAddress`	String	`A14C12`	The MAC ID of the tag.

4.2 – Get a Single Tag by ID

This section contains API calls to obtain a tag that matches a specified ID.

NOTE

Tag IDs are available by exporting the Published IDs from Trellix Locate. See "Published API for Locate Data" in the Trellix Lighting System Configuration Guide for details.

4.2.1 – Tag by ID - Detail View

Return the detail view for a specified tag ID.

HTTP Header Fields

```
GET /v2/rtls/public/tags/<TAG-ID>/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/tags/<TAG-ID>/detail
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<TAG-ID>` - Case-sensitive ID of the tag being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/tags/tag_2646D9/detail
```

JSON Body Example

```
{
    "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
```

```
    "updatedTime": "2019-09-05T13:40:04.246-0400",
    "createdTime": "2019-08-26T13:31:11.210-0400",
    "name": "tag_2646D9",
    "type": {
        "isDefault": false,
        "name": "Human Badge"
    },
    "batteryLevel": 100.0,
    "inventoryId": "tag_2646D9",
    "isRegistered": true,
    "isAssigned": true,
    "macAddress": "2646D9"
}
```


JSON Response Values

Using `ro` as the Tag by ID – Detail View response object in the example above, the relevant values are described below.

Property	Value	Example Value	Description
`ro.updatedBy`	String	`69add548-ec7c-49ba-aec1-0cabb5e2238c`	The access token used to update this tag.
`ro.updatedTime`	String	`2019-09-05T13:40:04.246-0400`	The time this tag was updated.
`ro.createdTime`	String	`2019-08-26T13:31:11.210-0400`	The time this tag was created.
`ro.name`	String	`tag_2646D9`	The name assigned to the tag.
`ro.type`	Object	`N/A`	An object whose properties describe the tag type.
`ro.type.isDefault`	String	`false`	Whether this is one of the default tag types.
`ro.type.name`	String	`Human Badge`	The name of this tag type.
`ro.batteryLevel`	Number	`100.0`	The percentage charge of the tag's battery.
`ro.inventoryId`	String	`tag_2646D9`	The inventory ID (Published ID) value assigned to the tag.
`ro.isRegistered`	Boolean	`true`	Whether the tag is enabled and subject to license limits.
`ro.isAssigned`	Boolean	`true`	Whether the tag is assigned to an asset.
`ro.macAddress`	String	`2646D9`	The MAC ID of the tag.

4.2.2 – Tag by ID - Display View

Return the display view for a specified tag ID.

HTTP Header Fields

```
GET /v2/rtls/public/tags/<TAG-ID>/display HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/tags/<TAG-ID>/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<TAG-ID>` - Case-sensitive ID of the tag being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/tags/tag_A14C13/display
```

JSON Body Example

```
{
    "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
    "updatedTime": "2019-09-12T07:53:04.340-0400",
    "name": "tag_A14C13",
    "type": {
        "isDefault": false,
        "name": "Asset Tag 2yr"
    },
    "batteryLevel": 21.0,
    "inventoryId": "tag_A14C13",
    "isRegistered": true,
    "isAssigned": true,
    "macAddress": "A14C13"
}
```


JSON Response Values

Using `ro` as the Tag by ID – Display View response object in the example above, the relevant values are described below.

Property	Value	Example Value	Description
`ro.updatedBy`	String	`69add548-ec7c-49ba-aec1-0cabb5e2238c`	The access token used to update this tag.
`ro.updatedTime`	String	`2019-09-12T07:53:04.340-0400`	The time this tag was last updated.
`ro.name`	String	`tag_A14C13`	The name assigned to the tag.
`ro.type`	Object	`N/A`	An object whose properties describe the tag type.
`ro.type.isDefault`	Boolean	`false`	Whether this is one of the default tag types.
`ro.type.name`	String	`Asset Tag 2yr`	The name of this tag type.
`ro.batteryLevel`	Number	`21.0`	The percentage charge of the tag's battery.
`ro.inventoryId`	String	`tag_A14C13`	The inventory ID (Published ID) value assigned to the tag.
`ro.isRegistered`	String	`true`	Whether the tag is enabled and subject to license limits.
`ro.isAssigned`	String	`true`	Whether or not the tag is assigned to an asset.

Property	Value	Example Value	Description
ro.macAddress	String	A14C13	The MAC ID of the tag.

4.2.3 – Tag by ID - Identity View

Return the identity view for a specified tag ID.

HTTP Header Fields

```
GET /v2/rtls/public/tags/<TAG-ID>/identity HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/tags/<TAG-ID>/identity
```

Where:

- <HOST-IP> - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- <HOST-PORT> - IP port on the Trellix Locate API server.
- <TOKEN-TYPE> - Type of authentication token (always *bearer*).
- <ACCESS-TOKEN> - Locate API token returned in a Get Public Login Token request.
- <TAG-ID> – Case-sensitive ID of the tag being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/tags/tag_A14C13/identity
```

JSON Body Example

```
{
    "name": "tag_A14C13",
    "inventoryId": "tag_A14C13",
    "macAddress": "A14C13"
}
```


JSON Response Values

Using ro as the Tag by ID - Identity View response object in the example above, the relevant values are described below.

Property	Data Type	Value	Description
ro.name	String	tag_A14C13	The name of this tag.
ro.inventoryId	String	tag_A14C13	The inventory ID (Published ID) of this tag.
ro.macAddress	String	A14C13	The MAC ID of this tag.

4.3 – Get Tags by Type

This section contains API calls to obtain a list of tags that match a specified tag type.

4.3.1 – Tags by Type - Detail List

Returns a detail list of all configured tags for a specified tag type.

HTTP Header Fields

```
GET /v2/rtls/public/tags/type/<TAG-TYPE>/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
```

```
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/tags/type/<TAG-TYPE>/detail
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<TAG-TYPE>` - Type of tag being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/tags/type/56af3c5f-669a-40af-9a54-2434405d9dcd/detail
```

JSON Body Example


```
[
    {
        "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
        "updatedTime": "2019-09-05T13:40:04.246-0400",
        "createdTime": "2019-08-26T13:31:11.210-0400",
        "name": "tag_2646D9",
        "type": {
            "isDefault": false,
            "name": "Human Badge"
        },
        "batteryLevel": 100.0,
        "inventoryId": "tag_2646D9",
        "isRegistered": true,
        "isAssigned": true,
        "macAddress": "2646D9"
    },
    {
        "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
        "updatedTime": "2019-08-28T08:09:45.686-0400",
        "createdTime": "2019-08-26T13:31:11.217-0400",
        "name": "tag_2646D5",
        "type": {
            "isDefault": false,
            "name": "Human Badge"
        },
        "inventoryId": "tag_2646D5",
        "isRegistered": true,
        "isAssigned": true,
        "macAddress": "2646D5"
    }
]
```

JSON Response Values

Using `ra` as the Tag Detail response array in the example above, the relevant values are described below.

Property	Value	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object whose properties describe the tag.
`ra[INDEX].updatedBy`	String	`69add548-ec7c-49ba-aec1-0cabb5e2238c`	The access token used to update this tag.

Property	Value	Example Value	Description
ra[INDEX].updatedTime	String	2019-09-05T13:40:04.246-0400	The time this tag was updated.
ra[INDEX].createdTime	String	2019-08-26T13:31:11.210-0400	The time this tag was created.
ra[INDEX].name	String	tag_2646D9	The name assigned to the tag.
ra[INDEX].type	Object	N/A	An object whose properties describe the tag type.
ra[INDEX].type.isDefault	String	false	Whether this is one of the default tag type.
ra[INDEX].type.name	String	Human Badge	The name of this tag type.
ra[INDEX].batteryLevel	Number	100.0	The percentage charge of the tag's battery.
ra[INDEX].inventoryId	String	tag_2646D9	The inventory ID (Published ID) value assigned to the tag.
ra[INDEX].isRegistered	Boolean	true	Whether the tag is enabled and subject to license limits.
ra[INDEX].isAssigned	Boolean	true	Whether the tag is assigned to an asset.
ra[INDEX].macAddress	String	2646D9	The MAC ID of the tag.

4.3.2 – Tags by Type - Display List

Return on display list of all configured tags for a specified tag type.

HTTP Header Fields

```
GET /v2/rtls/public/tags/type/<TAG-TYPE>/display HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/tags/type/<TAG-TYPE>/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<TAG-TYPE>` - Type of tag being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/tags/type/56af3c5f-669a-40af-9a54-2434405d9dcd/display
```

JSON Body Example

```
[
    {
```

```
        "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
        "updatedTime": "2019-09-05T13:40:04.246-0400",
        "name": "tag_2646D9",
        "type": {
            "isDefault": false,
            "name": "Human Badge"
        },
        "batteryLevel": 100.0,
        "inventoryId": "tag_2646D9",
        "isRegistered": true,
        "isAssigned": true,
        "macAddress": "2646D9"
    },
    {
        "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
        "updatedTime": "2019-08-28T08:09:45.686-0400",
        "name": "tag_2646D5",
        "type": {
            "isDefault": false,
            "name": "Human Badge"
        },
        "inventoryId": "tag_2646D5",
        "isRegistered": true,
        "isAssigned": true,
        "macAddress": "2646D5"
    }
]
```


JSON Response Values

Using `ra` as the Tag by Type – Display View response array in the example above, the relevant values are described below.

Property	Value	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object whose properties describe the tag.
`ra[INDEX].updatedBy`	String	`69add548-ec7c-49ba-aec1-0cabb5e2238c`	The access token used to update this tag.
`ra[INDEX].updatedTime`	String	`2019-09-05T13:40:04.246-0400`	The time this tag was updated.
`ra[INDEX].name`	String	`tag_2646D9`	The name assigned to the tag.
`ra[INDEX].type`	Object	`N/A`	An object whose properties describe the tag type.
`ra[INDEX].type.isDefault`	String	`false`	Whether this is one of the default tag types.
`ra[INDEX].type.name`	String	`Human Badge`	The name of this tag type.
`ra[INDEX].batteryLevel`	Number	`100.0`	The percentage charge of the tag's battery.
`ra[INDEX].inventoryId`	String	`tag_2646D9`	The inventory ID (Published ID) value assigned to the tag.
`ra[INDEX].isRegistered`	Boolean	`true`	Whether the tag is enabled and subject to license limits.
`ra[INDEX].isAssigned`	Boolean	`true`	Whether the tag is assigned to an asset.

Property	Value	Example Value	Description
ra[INDEX].macAddress	String	2646D9	The MAC ID of the tag.

4.3.3 – Tags by Type - Identity List

Returns an identity list of all configured tags for a specified tag type.

HTTP Header Fields

```
GET /v2/rtls/public/tags/type/<TAG-TYPE>/identity HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/tags/type/<TAG-TYPE>/identity
```

Where:

- <HOST-IP> - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- <HOST-PORT> - IP port on the Trellix Locate API server. Default is 8081.
- <TOKEN-TYPE> - Type of authentication token (always *bearer*).
- <ACCESS-TOKEN> - Locate API token returned in a Get Public Login Token request.
- <TAG-TYPE> - Type of tag being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/tags/type/56af3c5f-669a-40af-9a54-2434405d9dcd/identity
```

JSON Body Example

```
[
    {
        "name": "tag_2646D9",
        "inventoryId": "tag_2646D9",
        "macAddress": "2646D9"
    },
    {
        "name": "tag_2646D5",
        "inventoryId": "tag_2646D5",
        "macAddress": "2646D5"
    }
]
```

JSON Response Values

Using ra as the Tag by Type – Identity List response array in the example above, the relevant values are described below.

Property	Value	Example Value	Description
ra[INDEX]	Object	N/A	An object whose properties describe the tag.
ra[INDEX].name	String	tag_2646D9	The name assigned to the tag.
ra[INDEX].inventoryId	String	tag_2646D9	The inventory ID (Published ID) value assigned to the tag.
ra[INDEX].macAddress	String	2646D9	The MAC ID of the tag.

4.4 – Get All Assets

This section contains API calls to obtain a list of all assets on the network.

4.4.1 – All Assets - Detail List

Returns a detail list of all configured assets.

HTTP Header Fields

```
GET /v2/rtls/public/assets/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/detail
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/detail
```

JSON Body Example


```
[
    {
        "createdTime": "2019-08-26T14:22:27.296-0400",
        "departments": [
            {
                "id": "d97da5d9-4c94-482c-a457-74f5213e04de",
                "name": "Dermatology"
            }
        ],
        "inventoryId": "1234567",
        "name": "Test",
        "propertyValues": [
            {
                "property": {
                    "default": "0",
                    "displayName": "alarmCount",
                    "id": "ca9d04ed-9803-442d-ac5d-7926bbe931f1",
                    "mandatory": false,
                    "name": "alarmCount",
                    "operation": "RW",
                    "type": "INTEGER",
                    "updatedTime": "2019-08-27T02:15:37.695548-04:00"
                },
                "updatedTime": "2019-09-12T10:48:17.030-0400",
                "value": "1"
            }
        ],
        "tags": [
            {
                "name": "tag_270D09",
                "inventoryId": "tag_270D09",
                "macAddress": "270D09"
            }
        ],
        "type": {
```

```
            "id": "11c9ab74-6852-11e9-a923-1681be663d3e",
            "isDefault": false,
            "name": "Foot Pumps"
        },
        "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
        "updatedTime": "2019-09-09T13:38:19.197-0400"
    }
]
```


JSON Response Values

Using `ra` as the All Assets - Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX].createdTime`	String	`2019-08-26T14:22:27.296-0400`	The time this asset was created.
`ra[INDEX].departments`	Array	`N/A`	
`ra[INDEX].departments.id`	String	`d97da5d9-4c94-482c-a457-74f5213e04de`	The ID of the department to which this asset is assigned.
`ra[INDEX].departments.name`	String	`Dermatology`	The name of the department to which this asset is assigned.
`ra[INDEX].inventoryId`	String	`1234567`	The inventory ID (Published ID) value assigned to the tag.
`ra[INDEX].name`	String	`Test`	The name assigned to the tag.
`ra[INDEX].propertyValues`	Array	`N/A`	An optional array of one or more objects whose properties describe an asset property (e.g., the asset alarm count).
`ra[INDEX].propertyValues[0].property`	Object	`N/A`	An object that describes the property values.
`ra[INDEX].propertyValues[0].property.default`	String	`0`	The default value of this property.
`ra[INDEX].propertyValues[0].property.displayName`	String	`alarmCount`	The displayed property name.
`ra[INDEX].propertyValues[0].property.id`	String	`ca9d04ed-9803-442d-ac5d-7926bbe931f1`	The unique ID of this property
`ra[INDEX].propertyValues[0].property.mandatory`	Boolean	`false`	Whether this property is required.
`ra[INDEX].propertyValues[0].property.name`	String	`alarmCount`	The internal property name.

Property	Type	Example Value	Description
ra[INDEX].propertyValues[0].property.operation	String	RW	The operations permitted for this property: R (Read), W(Write).
ra[INDEX].propertyValues[0].property.type	String	INTEGER	The data type of this property.
ra[INDEX].propertyValues[0].property.updatedTime	String	2019-08-27T02:15:37.695548-04:00	The time this property was last modified.
ra[INDEX].propertyValues[0].updatedTime	String	2019-09-12T10:48:17.030-0400	The time this array was last modified.
ra[INDEX].propertyValues[0].value	String	1	The value assigned to this property.
ra[INDEX].tags	Array	N/A	An object that describes a tag assigned to this asset.
ra[INDEX].tags[0].name	String	tag_270D09	The name of the tag assigned to this asset.
ra[INDEX].tags[0].inventoryId	String	tag_270D09	The inventory ID (Published ID) of the tag assigned to this asset.
ra[INDEX].tags[0].macAddress	String	270D09	The MAC ID of the tag assigned to this asset.
ra[INDEX].type	Object	N/A	An object whose properties describe the asset type.
ra[INDEX].type.id	String	11c9ab74-6852-11e9-a923-1681be663d3e	The asset type ID.
ra[INDEX].type.isDefault	Boolean	false	Whether this is one of the default asset types.
ra[INDEX].type.name	String	Foot Pumps	The name of this asset type.
ra[INDEX].updatedBy	String	69add548-ec7c-49ba-aec1-0cabb5e2238c	The access token used to update this tag.
ra[INDEX].updatedTime	String	2019-09-09T13:38:19.197-0400	The time this asset was most recently updated.

4.4.2 – All Assets - Display List

Returns a display list of all configured assets.

HTTP Header Fields

```
GET /v2/rtls/public/assets/display
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/display
```

JSON Body Example


```
[
    {
        "departments": [
            {
                "id": "d97da5d9-4c94-482c-a457-74f5213e04de",
                "name": "Dermatology"
            }
        ],
        "inventoryId": "1234567",
        "name": "Test",
        "propertyValues": [
            {
                "property": {
                    "default": "0",
                    "displayName": "alarmCount",
                    "id": "ca9d04ed-9803-442d-ac5d-7926bbe931f1",
                    "mandatory": false,
                    "name": "alarmCount",
                    "operation": "RW",
                    "type": "INTEGER",
                    "updatedTime": "2019-08-27T02:15:37.695548-04:00"
                },
                "updatedTime": "2019-09-12T10:48:17.030-0400",
                "value": "1"
            }
        ],
        "tags": [
            {
                "name": "tag_270D09",
                "inventoryId": "tag_270D09",
                "macAddress": "270D09"
            }
        ],
        "type": {
            "id": "11c9ab74-6852-11e9-a923-1681be663d3e",
            "isDefault": false,
            "name": "Foot Pumps"
        },
```

```
        "updatedBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
        "updatedTime": "2019-09-09T13:38:19.197-0400"
    }
]
```

JSON Response Values

Using `ra` as the All Assets - Display List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX].departments`	Array	`N/A`	
`ra[INDEX].departments[0].id`	String	`d97da5d9-4c94-482c-a457-74f5213e04de`	The ID of the department to which this asset is assigned.
`ra[INDEX].departments[0].name`	String	`Dermatology`	The name of the department to which this asset is assigned.
`ra[INDEX].inventoryId`	String	`1234567`	The inventory ID (Published ID) value assigned to the tag.
`ra[INDEX].name`	String	`Test`	The name assigned to the tag.
`ra[INDEX].propertyValues`	Array	`N/A`	An optional array of one or more objects whose properties describe an asset property (e.g., the asset alarm count).
`ra[INDEX].propertyValues[0].property`	Object	`N/A`	An object that describes the property values.
`ra[INDEX].propertyValues[0].property.default`	String	`0`	The default value of this property.
`ra[INDEX].propertyValues[0].property.displayName`	String	`alarmCount`	The displayed property name.
`ra[INDEX].propertyValues[0].property.id`	String	`ca9d04ed-9803-442d-ac5d-7926bbe931f1`	The unique ID of this property
`ra[INDEX].propertyValues[0].property.mandatory`	Boolean	`false`	Whether this property is required.
`ra[INDEX].propertyValues[0].property.name`	String	`alarmCount`	The internal property name.
`ra[INDEX].propertyValues[0].property.operation`	String	`RW`	The operations permitted for this property: R (Read), W (Write).
`ra[INDEX].propertyValues[0].property.type`	String	`INTEGER`	The data type of this property.

Property	Type	Example Value	Description
ra[INDEX].propertyValues[0].property.updatedTime	String	2019-08-27T02:15:37.695548-04:00	The time this property was last modified.
ra[INDEX].propertyValues[0].updatedTime	String	2019-09-12T10:48:17.030-0400	The time this array was last modified.
ra[INDEX].propertyValues[0].value	String	1	The value assigned to this array.
ra[INDEX].tags	Array	N/A	An object that describes a tag assigned to this asset.
ra[INDEX].tags[0].name	String	tag_270D09	The name of the tag assigned to this asset.
ra[INDEX].tags[0].inventoryId	String	tag_270D09	The inventory ID (Published ID) of the tag assigned to this asset.
ra[INDEX].tags[0].macAddress	String	270D09	The MAC ID of the tag assigned to this asset.
ra[INDEX].type	Object	N/A	An object whose properties describe the asset type.
ra[INDEX].type.id	String	11c9ab74-6852-11e9-a923-1681be663d3e	The asset type ID.
ra[INDEX].type.isDefault	Boolean	false	Whether this is one of the default asset types.
ra[INDEX].type.name	String	Foot Pumps	The name of this asset type.
ra[INDEX].updatedBy	String	69add548-ec7c-49ba-aec1-0cabb5e2238c	The access token used to update this tag.
ra[INDEX].updatedTime	String	2019-09-09T13:38:19.197-0400	The time this asset was most recently updated.

4.4.3 – All Assets - Identity List

Returns an identity list of all configured assets.

HTTP Header Fields

```
GET /v2/rtls/public/assets/identity
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/identity
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/identity
```

JSON Body Example

```
[
    {
        "inventoryId": "1234567",
        "name": "Test"
    },
    {
        "inventoryId": "Office_3",
        "name": "Office_Tag_46D5_Battery"
    },
    {
        "inventoryId": "NotTagAsset2",
        "name": "NotTagAsset2"
    },
    {
        "inventoryId": "NoTagAsset1",
        "name": "NoTagAsset1"
    }
]
```


JSON Response Values

Using `ra` as the All Assets - Identity List response array in the example above, the relevant values are described below.

Property	Data Type	Example Value	Description
`ra[INDEX].inventoryId`	String	`Office_3`	The inventory ID (Published ID) value assigned to the asset.
`ra[INDEX].name`	String	`Office_Tag_46D5_Battery`	The name assigned to the asset.

4.5 – Get a Single Asset by ID

This section contains API calls for viewing an asset that matches a specified ID.

NOTE
Asset IDs are available by exporting the Published IDs from Trellix Locate. See the Trellix Lighting System Configuration Guide for details.

4.5.1 – Asset by ID - Detail View

Returns a detail view of an asset specified by ID.

HTTP Header Fields

```
GET /v2/rtls/public/assets/<ASSET-ID>/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/<ASSET-ID>/detail
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID> –` Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/Office_1/detail
```

JSON Body Example


```
{
    "createdBy": "69add548-ec7c-49ba-aec1-0cabb5e2238c",
    "createdTime": "2019-09-05T13:40:04.228-0400",
    "departments": [
        {
            "id": "e5fa967b-b0f0-4007-9a31-d7121656230b",
            "name": "Anesthesiology & Perioperative Care"
        }
    ],
    "inventoryId": "Office_1",
    "name": "Office_Tag_46D9_Battery",
    "propertyValues": [
        {
            "property": {
                "displayName": "Inventory ID",
                "displayOrder": -1,
                "id": "71f3931e-f7fe-4b1d-a5e1-adf0eac4e8aa",
                "isHidden": false,
                "mandatory": false,
                "name": "property_43186",
                "operation": "RW",
                "range": "1-200",
                "type": "STRING",
                "updatedTime": "2019-08-26T14:39:16.519216-04:00"
            },
            "updatedTime": "2019-09-05T13:55:32.625-0400"
        },
        {
            "property": {
                "default": "0",
                "displayName": "alarmCount",
                "id": "0d84a539-ca69-4b65-a4e3-1c6e3e907b98",
                "mandatory": false,
                "name": "alarmCount",
                "operation": "RW",
                "type": "INTEGER",
                "updatedTime": "2019-08-27T02:15:37.712057-04:00"
            },
            "updatedTime": "2019-09-13T15:51:11.772-0400",
            "value": "5"
        }
    ],
    "tags": [
        {
            "name": "tag_2646D9",
            "inventoryId": "tag_2646D9",
            "macAddress": "2646D9"
        }
    ],
```

```
    "type": {
        "id": "11c9f4e4-6852-11e9-a923-1681be663d3e",
        "isDefault": false,
        "name": "Aerosol Tents"
    },
    "updatedBy": "51a3fc1a-61a4-4e18-a576-aa27da0a9f89",
    "updatedTime": "2019-09-05T13:55:32.625-0400"
}
```


JSON Response Values

Using `ro` as the Asset by ID - Detail View response object in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ro.createdBy`	String	`69add548-ec7c-49ba-aec1-0cabb5e2238c`	The authentication token used to create this asset.
`ro.createdTime`	String	`2019-08-26T14:22:27.296-0400`	The time this asset was created.
`ro.departments`	Array		
`ro.departments.id`	String	`e5fa967b-b0f0-4007-9a31-d7121656230b`	The ID of the department to which this asset is assigned.
`ro.departments.name`	String	`Anesthesiology & Perioperative Care`	The name of the department to which this asset is assigned.
`ro.inventoryId`	String	`Office_1`	The inventory ID (Published ID) value assigned to this asset.
`ro.name`	String	`Office_Tag_46D9_Battery`	The name assigned to the asset.
`ro.propertyValues`	Array	`N/A`	An optional array of one or more objects whose properties describe an asset property (e.g., the asset alarm count).
`ro.propertyValues[0].property`	Object	`N/A`	An object that describes the property values.
`ro.propertyValues[0].property.default`	String	`0`	The default value of this property.
`ro.propertyValues[0].property.displayName`	String	`Inventory ID`	The displayed property name.

Property	Type	Example Value	Description
ro.propertyValues[0].property.displayOrder	Number	-1	The sequence in which this property appears.
ro.propertyValues[0].property.id	String	71f3931e-f7fe-4b1d-a5e1-adf0eac4e8aa	The unique ID of this property
ro.propertyValues[0].property.isHidden	Boolean	false	Whether this property is visible to the user.
ro.propertyValues[0].property.mandatory	Boolean	false	Whether this property is required.
ro.propertyValues[0].property.name	String	property_43186	The internal property name.
ro.propertyValues[0].property.operation	String	RW	The operations permitted for this property: R (Read), W(Write).
ro.propertyValues[0].property.range	String	1-200	The allowed range (length) of this property.
ro.propertyValues[0].property.type	String	STRING	The data type of this property.
ro.propertyValues[0].property.updatedTime	String	2019-08-26T14:39:16.519216-04:00	The time this property was last modified.
ro.propertyValues[0].updatedTime	String	2019-09-05T13:55:32.625-0400	The time this array was last modified.
ro.propertyValues[0].value	String	5	The value assigned to this array.
ro.tags	Array	N/A	An object that describes a tag assigned to this asset.
ro.tags[0].name	String	tag_2646D9	The name of the tag assigned to this asset.
ro.tags[0].inventoryId	String	tag_2646D9	The inventory ID (Published ID) of the tag assigned to this asset.
ro.tags[0].macAddress	String	270D09	The MAC ID of the tag assigned to this asset.
ro.type	Object	N/A	An object whose properties describe the asset type.

Property	Type	Example Value	Description
ro.type.id	String	11c9f4e4-6852-11e9-a923-1681be663d3e	The asset type ID.
ro.type.isDefault	Boolean	false	Whether this is one of the default asset types.
ro.type.name	String	Aerosol Tents	The name of this asset type.
ro.updatedBy	String	51a3fc1a-61a4-4e18-a576-aa27da0a9f89	The access token used to update this tag.
ro.updatedTime	String	2019-09-05T13:55:32.625-0400	The time this asset was most recently updated.

4.5.2 – Asset by ID - Display View

Returns a display view of an asset specified by ID.

HTTP Header Fields

```
GET /v2/rtls/public/assets/<ASSET-ID>/display
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/<ASSET-ID>/display
```

Where:

- <HOST-IP> - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- <HOST-PORT> - IP port on the Trellix Locate API server.
- <TOKEN-TYPE> - Type of authentication token (always *bearer*).
- <ACCESS-TOKEN> - Locate API token returned in a Get Public Login Token request.
- <ASSET-ID> - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/Office_2/display
```

JSON Body Example

```
{
    "departments": [
        {
            "id": "bf8d94ee-e642-4f0c-bc84-3afa2660f57e",
            "name": "Neonatal intensive care unit"
        }
    ],
    "inventoryId": "Office_2",
    "name": "Office_Tag_46D6_Battery",
    "propertyValues": [
        {
            "property": {
                "displayName": "Name",
                "displayOrder": -1,
                "id": "3d7186e4-24ee-42cc-8b2b-1270eb13c8f4",
```

```
                "isHidden": false,
                "mandatory": false,
                "name": "property_63512",
                "operation": "RW",
                "range": "1-32",
                "type": "STRING",
                "updatedTime": "2019-08-26T14:45:59.550288-04:00"
            },
            "updatedTime": "2019-09-05T13:55:11.784-0400",
            "value": "Nitesh"
        },
        {
            "property": {
                "default": "0",
                "displayName": "alarmCount",
                "id": "03fa9211-066a-44a3-8b07-30f307ff85b1",
                "mandatory": false,
                "name": "alarmCount",
                "operation": "RW",
                "type": "INTEGER",
                "updatedTime": "2019-08-27T02:15:37.70357-04:00"
            },
            "updatedTime": "2019-09-13T15:51:11.789-0400",
            "value": "5"
        }
    ],
    "tags": [
        {
            "name": "tag_2646D6",
            "inventoryId": "tag_2646D6",
            "macAddress": "2646D6"
        }
    ],
    "type": {
        "id": "f254ae04-6853-11e9-a923-1681be663d3e",
        "isDefault": false,
        "name": "Babies"
    },
    "updatedBy": "51a3fc1a-61a4-4e18-a576-aa27da0a9f89",
    "updatedTime": "2019-09-05T13:55:11.784-0400"
}
```


JSON Response Values

Using `ro` as the Asset by ID - Display View response object in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ro.departments`	Array	`N/A`	
`ro.departments[0].id`	String	`bf8d94ee-e642-4f0c-bc84-3afa2660f57e`	The ID of the department to which this asset is assigned.
`ro.departments[0].name`	String	`Neonatal intensive care unit`	The name of the department to which this asset is assigned.
`ro.inventoryId`	String	`Office_2`	The inventory ID (Published ID) value assigned to the tag.

Property	Type	Example Value	Description
ro.name	String	Office_Tag_46D6_Battery	The name assigned to the tag.
ro.propertyValues	Array	N/A	An optional array of one or more objects whose properties describe an asset property (e.g., the asset alarm count).
ro.propertyValues[0].property	Object	N/A	An object that describes the property values.
ro.propertyValues[INDEX].property.default	String	0	The default value of this property.
ro.propertyValues[INDEX].property.displayName	String	Name	The displayed property name.
ro.propertyValues[INDEX].property.displayOrder	Number	-1	The sequence in which this property appears.
ro.propertyValues[INDEX].property.id	String	3d7186e4-24ee-42cc-8b2b-1270eb13c8f4	The unique ID of this property.
ro.propertyValues[INDEX].property.isHidden	Boolean	False	Whether this property is visible to the user.
ro.propertyValues[INDEX].property.mandatory	Boolean	false	Whether this property is required.
ro.propertyValues[INDEX].property.name	String	property_63512	The internal property name.
ro.propertyValues[INDEX].property.operation	String	RW	The operations permitted for this property: R (Read), W(Write).
ro.propertyValues[INDEX].property.range	String	1-32	The allowed range (length) of this property.
ro.propertyValues[INDEX].property.type	String	STRING	The data type of this property.
ro.propertyValues[INDEX].property.updatedTime	String	2019-08-26T14:45:59.550288-04:00	The time this property was last modified.
ro.propertyValues[INDEX].updatedTime	String	2019-09-05T13:55:11.784-0400	The time this array was last modified.
ro.propertyValues[INDEX].value	String	Nitesh	The value assigned to this array.

Property	Type	Example Value	Description
ro.tags	Array	N/A	An object that describes a tag assigned to this asset.
ro.tags[0].name	String	tag_2646D6	The name of the tag assigned to this asset.
ro.tags[0].inventoryId	String	tag_2646D6	The inventory ID (Published ID) of the tag assigned to this asset.
ro.tags[0].macAddress	String	2646D6	The MAC ID of the tag assigned to this asset.
ro.type	Object	N/A	An object whose properties describe the asset type.
ro.type.id	String	f254ae04-6853-11e9-a923-1681be663d3e	The asset type ID.
ro.type.isDefault	Boolean	false	Whether this is one of the default asset types.
ro.type.name	String	Babies	The name of this asset type.
ro.updatedBy	String	51a3fc1a-61a4-4e18-a576-aa27da0a9f89	The access token used to update this tag.
ro.updatedTime	String	2019-09-05T13:55:11.784-0400	The time this asset was most recently updated.

4.5.3 – Asset by ID - Identity View

Returns an identity view of an asset specified by ID.

HTTP Header Fields

```
GET /v2/rtls/public/assets/<ASSET-ID>/identity
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/<ASSET-ID>/identity
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server.
- `<TOKEN-TYPE>` is the type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` is the Trellix Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/Office_1/identity
```

JSON Body Example

```
{
    "inventoryId": "Office_1",
    "name": "Office_Tag_46D9_Battery"
}
```

JSON Response Values

Using `ra` as the Asset by ID - Identity View response array in the example above, the relevant values are described below.

Property	Data Type	Example Value	Description
`ra[INDEX].inventoryId`	String	`Office_1`	The inventory ID (Published ID) value assigned to the asset.
`ra[INDEX].name`	String	`Office_Tag_46D9_Battery`	The name assigned to the asset.

4.6 – Get Assets by Type

4.6.1 – Assets by Type - Detail List

Returns a detail list of assets by type.

HTTP Header Fields

```
GET /v2/rtls/public/assets/type/<ASSET-TYPE>/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/type/<ASSET-TYPE>/detail
```


Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-TYPE>` - Case-sensitive type of the assets being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/type/f254b516-6853-11e9-a923-1681be663d3e/detail
```

JSON Body Example

```
[
    {
        "createdBy": "dbf78335-65c6-486b-b5f8-71ed61438c41",
        "createdTime": "2019-09-10T14:47:12.211-0400",
        "departments": [
            {
                "id": "73d5997d-1e70-46f6-9367-4ecba984a35a",
                "name": "Cardiology"
            }
        ],
        "inventoryId": "NotTagAsset2",
        "name": "NotTagAsset2",
```

```
        "propertyValues": [
            {
                "property": {
                    "default": "0",
                    "displayName": "alarmCount",
                    "id": "49ae6029-81e7-446a-9f54-c221a251f7f4",
                    "mandatory": false,
                    "name": "alarmCount",
                    "operation": "RW",
                    "type": "INTEGER",
                    "updatedTime": "2019-08-27T02:15:37.700282-04:00"
                },
                "updatedTime": "2019-09-10T14:47:12.223-0400"
            }
        ],
        "type": {
            "id": "f254b516-6853-11e9-a923-1681be663d3e",
            "isDefault": false,
            "name": "Cleaning Crew"
        },
        "updatedBy": "dbf78335-65c6-486b-b5f8-71ed61438c41",
        "updatedTime": "2019-09-10T14:47:12.223-0400"
    }
]
```


JSON Response Values

Using `ra` as the Assets by Type - Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX].createdBy`	String	`dbf78335-65c6-486b-b5f8-71ed61438c41`	The time this asset was created.
`ra[INDEX].createdTime`	String	`2019-09-10T14:47:12.211-0400`	The time this asset was created.
`ra[INDEX].departments`	Array		
`ra[INDEX].departments.id`	String	`73d5997d-1e70-46f6-9367-4ecba984a35a`	The ID of the department to which this asset is assigned.
`ra[INDEX].departments.name`	String	`Cardiology`	The name of the department to which this asset is assigned.
`ra[INDEX].inventoryId`	String	`NotTagAsset2`	The inventory ID (Published ID) value assigned to the tag.
`ra[INDEX].name`	String	`NotTagAsset2`	The name assigned to the tag.

Property	Type	Example Value	Description
ra[INDEX].propertyValues	Array	N/A	An optional array of one or more objects whose properties describe an asset property (e.g., the asset alarm count).
ra[INDEX].propertyValues[0].property	Object	N/A	An object that describes the property values.
ra[INDEX].propertyValues[0].property.default	String	0	The default value of this property.
ra[INDEX].propertyValues[0].property.displayName	String	alarmCount	The displayed property name.
ra[INDEX].propertyValues[0].property.id	String	49ae6029-81e7-446a-9f54-c221a251f7f4	The unique ID of this property
ra[INDEX].propertyValues[0].property.mandatory	Boolean	false	Whether this property is required.
ra[INDEX].propertyValues[0].property.name	String	alarmCount	The internal property name.
ra[INDEX].propertyValues[0].property.operation	String	RW	The operations permitted for this property: R (Read), W (Write).
ra[INDEX].propertyValues[0].property.type	String	INTEGER	The data type of this property.
ra[INDEX].propertyValues[0].property.updatedTime	String	2019-08-27T02:15:37.700282-04:00	The time this property was last modified.
ra[INDEX].propertyValues[0].updatedTime	String	2019-09-10T14:47:12.223-0400	The time this array was last modified.
ra[INDEX].type	Object	N/A	An object whose properties describe the asset type.
ra[INDEX].type.id	String	f254b516-6853-11e9-a923-1681be663d3e	The asset type ID.
ra[INDEX].type.isDefault	Boolean	false	Whether this is one of the default asset types.
ra[INDEX].type.name	String	Cleaning Crew	The name of this asset type.
ra[INDEX].updatedBy	String	dbf78335-65c6-486b-b5f8-71ed61438c41	The access token used to update this tag.

Property	Type	Example Value	Description
`ra[INDEX].updatedTime`	String	`2019-09-10T14:47:12.223-0400`	The time this asset was most recently updated.

4.6.2 – Assets by Type - Display List

Returns a display list of assets by type.

HTTP Header Fields

```
GET /v2/rtls/public/assets/type/<ASSET-TYPE>/display HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/type/<ASSET-TYPE>/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-TYPE>` - Case-sensitive type of the assets being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/type/f254b516-6853-11e9-a923-1681be663d3e/display
```

JSON Body Example

```
[
    {
        "departments": [
            {
                "id": "73d5997d-1e70-46f6-9367-4ecba984a35a",
                "name": "Cardiology"
            }
        ],
        "inventoryId": "NotTagAsset2",
        "name": "NotTagAsset2",
        "propertyValues": [
            {
                "property": {
                    "default": "0",
                    "displayName": "alarmCount",
                    "id": "49ae6029-81e7-446a-9f54-c221a251f7f4",
                    "mandatory": false,
                    "name": "alarmCount",
                    "operation": "RW",
                    "type": "INTEGER",
                    "updatedTime": "2019-08-27T02:15:37.700282-04:00"
                },
                "updatedTime": "2019-09-10T14:47:12.223-0400"
            }
        ],
        "type": {
            "id": "f254b516-6853-11e9-a923-1681be663d3e",
            "isDefault": false,
            "name": "Cleaning Crew"
        },
```

```
        "updatedBy": "dbf78335-65c6-486b-b5f8-71ed61438c41",
        "updatedTime": "2019-09-10T14:47:12.223-0400"
    }
]
```

JSON Response Values

Using `ra` as the Assets by Type - Display List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX].departments`	Array		
`ra[INDEX].departments.id`	String	`73d5997d-1e70-46f6-9367-4ecba984a35a`	The ID of the department to which this asset is assigned.
`ra[INDEX].departments.name`	String	`Cardiology`	The name of the department to which this asset is assigned.
`ra[INDEX].inventoryId`	String	`NotTagAsset2`	The inventory ID (Published ID) value assigned to the tag.
`ra[INDEX].name`	String	`NotTagAsset2`	The name assigned to the tag.
`ra[INDEX].propertyValues`	Array	`N/A`	An optional array of one or more objects whose properties describe an asset property (e.g., the asset alarm count).
`ra[INDEX].propertyValues[0].property`	Object	`N/A`	An object that describes the property values.
`ra[INDEX].propertyValues[0].property.default`	String	`0`	The default value of this property.
`ra[INDEX].propertyValues[0].property.displayName`	String	`alarmCount`	The displayed property name.
`ra[INDEX].propertyValues[0].property.id`	String	`49ae6029-81e7-446a-9f54-c221a251f7f4`	The unique ID of this property
`ra[INDEX].propertyValues[0].property.mandatory`	Boolean	`false`	Whether this property is required.
`ra[INDEX].propertyValues[0].property.name`	String	`alarmCount`	The internal property name.
`ra[INDEX].propertyValues[0].property.operation`	String	`RW`	The operations permitted for this property: R (Read), W (Write).

Property	Type	Example Value	Description
ra[INDEX].propertyValues[0].property.type	String	INTEGER	The data type of this property.
ra[INDEX].propertyValues[0].property.updatedTime	String	2019-08-27T02:15:37.700282-04:00	The time this property was last modified.
ra[INDEX].propertyValues[0].updatedTime	String	2019-09-10T14:47:12.223-0400	The time this array was last modified.
ra[INDEX].type	Object	N/A	An object whose properties describe the asset type.
ra[INDEX].type.id	String	f254b516-6853-11e9-a923-1681be663d3e	The asset type ID.
ra[INDEX].type.isDefault	Boolean	false	Whether this is one of the default asset types.
ra[INDEX].type.name	String	Cleaning Crew	The name of this asset type.
ra[INDEX].updatedBy	String	dbf78335-65c6-486b-b5f8-71ed61438c41	The access token used to update this tag.
ra[INDEX].updatedTime	String	2019-09-10T14:47:12.223-0400	The time this asset was most recently updated.

4.6.3 – Assets by Type - Identity List

Returns an identity list of assets by type.

HTTP Header Fields

```
GET /v2/rtls/public/assets/type/<ASSET-TYPE>/identity HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/type/<ASSET-TYPE>/identity
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-TYPE>` - Case-sensitive type of the assets being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/type/f254b516-6853-11e9-a923-1681be663d3e/identity
```

JSON Body Example

```
[
    {
        "inventoryId": "HighTagAsset1",
        "name": " HighTagAsset1"
    },
    {
        "inventoryId": " MidTagAsset2",
        "name": " MidTagAsset2"
    },
    {
        "inventoryId": "LowTagAsset3",
        "name": "LowTagAsset3"
    }
]
```

JSON Response Values

Using `ra` as the Assets by Type - Identity List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX].inventoryId`	String	`HighTagAsset1`	The inventory ID (Published ID) value assigned to the tag.
`ra[INDEX].name`	String	`HighTagAsset1`	The name assigned to the tag.

4.7 – Get All Geo-Fences

This section contains API calls for viewing a list of all geo-fences on the network.

4.7.1 – Get All Geo-Fences – Detail List

Returns a detail list of all configured geo-fences.

HTTP Header Fields

```
GET /v2/rtls/public/geofences/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/geofences/detail
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/geofences/detail
```

JSON Body Example

```
[
    {
        "createdBy": "45bb301c-6c60-4115-a484-88a439a69f21",
        "createdTime": "2019-08-26T15:22:16.537-0400",
```

```
        "decorators": [
            {
                "createdTime": "2019-08-28T11:45:08.151-0400",
                "id": "17c04971-26d2-37e1-3356-ffb62053c07f",
                "isViewable": true,
                "name": "floorPlanProperties",
                "polygon": [
                    {
                        "x": 601.3897,
                        "y": 687.0397
                    },
                    {
                        "x": 785.88824,
                        "y": 682.18445
                    },
                    {
                        "x": 776.1778,
                        "y": 799.51904
                    },
                    {
                        "x": 604.6265,
                        "y": 804.37427
                    }
                ],
                "text": {
                    "fontSize": 12,
                    "position": "top-center"
                },
                "updatedTime": "2019-08-28T11:45:08.151-0400"
            }
        ],
        "floor": {
            "name": "DeleteFloor",
            "publicId": "F1"
        },
        "hysteresis": 0.0,
        "hysteresisEnabled": true,
        "isEnabled": true,
        "isHidden": true,
        "name": "Sample",
        "rules": [
            {
                "actions": [
                    "ALARM",
                    "EVENT"
                ],
                "createdTime": "2019-08-26T15:34:14.484-0400",
                "rule": {
                    "id": "953eb0ab-0216-4940-8950-cadee84f96cc",
                    "name": "Entry"
                },
                "scopes": [
                    {
                        "appliesTo": "DEPARTMENT",
                        "appliesToId": "73f53826-2d7b-41dc-bc01-74a7588f462b",
                        "id": "73f53826-2d7b-41dc-bc01-74a7588f462b"
                    },
                    {
                        "appliesTo": "DEPARTMENT",
                        "appliesToId": "34f3a24f-e515-4427-b715-7c90721072a0",
                        "id": "34f3a24f-e515-4427-b715-7c90721072a0"
                    },
                    {
                        "appliesTo": "DEPARTMENT",
                        "appliesToId": "f9bbcdc1-9e47-4ed0-a36f-b555bccb3be9",
                        "id": "f9bbcdc1-9e47-4ed0-a36f-b555bccb3be9"
```

```
                    }
                ],
                "updatedTime": "2019-09-03T13:22:31.935-0400"
            }
        ],
        "type": {
            "id": "3322c868-eee6-11e8-8eb2-f2801f1b9fd1",
            "isDefault": true,
            "name": "Safety/Security"
        },
        "updatedBy": "44bb677d-c701-45af-a71d-f92ea16712ad",
        "updatedTime": "2019-08-28T11:45:08.151-0400"
    }
]
```


JSON Response Values

Using `ra` as the All Geo-Fences - Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX].createdBy`	String	`45bb301c-6c60-4115-a484-88a439a69f21`	The authentication token used create this geo-fence.
`ra[INDEX].createdTime`	String	`2019-08-26T15:22:16.537-0400`	The time this geo-fence was created.
`ra[INDEX].decorators`	Array	`N/A`	An array whose objects describe the geo-fence.
`ra[INDEX].decorators[0].createdTime`	String	`2019-08-28T11:45:08.151-0400`	The time this geo-fence was created.
`ra[INDEX].decorators[0].id`	String	`17c04971-26d2-37e1-3356-ffb62053c07f`	The geo-fence ID (UUID).
`ra[INDEX].decorators[0].isViewable`	Boolean	`true`	Whether this geo-fence is visible on the floor plan.
`ra[INDEX].decorators[0].name`	String	`floorPlanProperties`	The name of this decorator.
`ra[INDEX].decorators[0].polygon`	Array	`N/A`	An array of objects whose properties describe the polygon.
`ra[INDEX].decorators[0].polygon[0]`	Object	`N/A`	An object containing the X and Y coordinates that define a point in the geo-fence boundary.
`ra[INDEX].decorators[0].polygon[0].x`	Number	`601.3897`	The relative X coordinate.
`ra[INDEX].decorators[0].polygon[0].y`	Number	`687.0397`	The relative Y coordinate.
`ra[INDEX].decorators[0].text`	Object	`N/A`	An object that contains the geo-fence attribute.
`ra[INDEX].decorators[0].text.fontSize`	Number	`12`	The font size for the text, in pixels.
`ra[INDEX].decorators[0].text.position`	String	`top-center`	The relative location of the text.

Property	Type	Example Value	Description
ra[INDEX].decorators[0].updatedTime	String	2019-08-28T11:45:08.151-0400	The time this decorator was last updated.
ra[INDEX].floor	Object	N/A	An object whose properties describe the floor to which this geo-fence belongs.
ra[INDEX].floor.name	String	DeleteFloor	The name of the floor.
ra[INDEX].floor.publicId	String	F1	The Published ID value for this floor.
ra[INDEX].hysteresis	Number	0.0	A margin included inside and outside the geo-fence boundary before alarms or events are generated, to accommodate location accuracy error.
ra[INDEX].hysteresisEnabled	Boolean	True	Whether hysteresis is enabled for this geo-fence.
ra[INDEX].isEnabled	Boolean	true	Whether this geo-fence is enabled to trigger actions and rules.
ra[INDEX].isHidden	Boolean	true	Whether this geo-fence is hidden on the floorplan.
ra[INDEX].name	String	Sample	The name of this geo-fence type.
ra[INDEX].rules[0]	Array	N/A	An optional array of objects whose properties describe an alarm or event rule.
ra[INDEX].rules[0].actions	Object	N/A	An array whose objects described the supported rule actions (e.g., ALARM, EVENT).
ra[INDEX].rules[0].createdTime	String	2019-08-26T15:34:14.484-0400	The time this rule was created.
ra[INDEX].rules[0].rule	Object	N/A	An object whose properties describe the rule.
ra[INDEX].rules[0].rule.id	String	953eb0ab-0216-4940-8950-cadee84f96cc	The unique ID of this rule.
ra[INDEX].rules[0].rule.name	String	Entry	The name of this rule.
ra[INDEX].rules[0].scopes	Array	N/A	An array of scope objects.
ra[INDEX].rules[0].scopes[0]	Object	N/A	An object whose properties describe the scope.
ra[INDEX].rules[0].scopes[0].appliesTo	String	DEPARTMENT	The category type to which this scope applies.
ra[INDEX].rules[0].scopes[0].appliesToId	String	34f3a24f-e515-4427-b715-7c90721072a0	The ID to which is scope applies.

Property	Type	Example Value	Description
ra[INDEX].rules[0].scopes[0].id	String	f9bbcdc1-9e47-4ed0-a36f-b555bccb3be9	The unique ID of this scope.
ra[INDEX].rules[0].updatedTime	String	2019-09-03T13:22:31.935-0400	The time this rule was last updated.
ra[INDEX].type	Object	N/A	An object containing the type properties of this geo-fence.
ra[INDEX].type.id	String	3322c868-eee6-11e8-8eb2-f2801f1b9fd1	The geo-fence ID.
ra[INDEX].type.isDefault	Boolean	true	Whether this is one of the three default geo-fence types (Safety/Security, Analytics, Boundary).
ra[INDEX].type.name	String	Safety/Security	The name of this geo-fence type.
ra[INDEX].updatedBy	String	44bb677d-c701-45af-a71d-f92ea16712ad	The access token used to update this geo-fence.
ra[INDEX].updatedTime	String	2019-08-28T11:45:08.151-0400	The time this geo-fence was most recently updated.

4.7.2 – Get All Geo-Fences – Display List

Returns a display list of all configured geo-fences.

HTTP Header Fields

```
GET /v2/rtls/public/geofences/display HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/geofences/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/geofences/display
```

JSON Body Example

```
[
    {
        "decorators": [
            {
```

```
                "createdTime": "2019-09-15T12:08:18.163-0400",
                "id": "17c04971-26d2-37e1-3356-ffb62053c07f",
                "isViewable": true,
                "name": "floorPlanProperties",
                "polygon": [
                    {
                        "x": 601.3897,
                        "y": 687.0397
                    },
                    {
                        "x": 785.88824,
                        "y": 682.18445
                    },
                    {
                        "x": 776.1778,
                        "y": 799.51904
                    },
                    {
                        "x": 604.6265,
                        "y": 804.37427
                    }
                ],
                "text": {
                    "fontSize": 12,
                    "position": "top-center"
                },
                "updatedTime": "2019-08-28T11:45:08.151-0400"
            }
        ],
        "floor": {
            "name": "DeleteFloor",
            "publicId": "F1"
        },
        "hysteresis": 0.0,
        "hysteresisEnabled": true,
        "isEnabled": true,
        "isHidden": true,
        "name": "Sample",
        "rules": [
            {
                "actions": [
                    "ALARM",
                    "EVENT"
                ],
                "createdTime": "2019-08-26T15:34:14.484-0400",
                "rule": {
                    "id": "953eb0ab-0216-4940-8950-cadee84f96cc",
                    "name": "Entry"
                },
                "scopes": [
                    {
                        "appliesTo": "DEPARTMENT",
                        "appliesToId": "73f53826-2d7b-41dc-bc01-74a7588f462b",
                        "id": "73f53826-2d7b-41dc-bc01-74a7588f462b"
                    },
                    {
                        "appliesTo": "DEPARTMENT",
                        "appliesToId": "34f3a24f-e515-4427-b715-7c90721072a0",
                        "id": "34f3a24f-e515-4427-b715-7c90721072a0"
                    },
                    {
                        "appliesTo": "DEPARTMENT",
                        "appliesToId": "f9bbcdc1-9e47-4ed0-a36f-b555bccb3be9",
                        "id": "f9bbcdc1-9e47-4ed0-a36f-b555bccb3be9"
                    }
                ],
```

```
                "updatedTime": "2019-09-03T13:22:31.935-0400"
            }
        ],
        "type": {
            "id": "3322c868-eee6-11e8-8eb2-f2801f1b9fd1",
            "isDefault": true,
            "name": "Safety/Security"
        },
        "updatedBy": "44bb677d-c701-45af-a71d-f92ea16712ad",
        "updatedTime": "2019-08-28T11:45:08.151-0400"
    }
]
```


JSON Response Values

Using `ra` as the All Geo-Fences - Display List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX].decorators`	Array	`N/A`	An array whose objects describe the geo-fence.
`ra[INDEX].decorators[0].createdTime`	String	`2019-09-15T12:08:18.163-0400`	The time this geo-fence was created.
`ra[INDEX].decorators[0].id`	String	`17c04971-26d2-37e1-8356-ffb62053c07f`	The geo-fence ID (UUID).
`ra[INDEX].decorators[0].isViewable`	Boolean	`true`	Whether this geo-fence is visible on the floor plan.
`ra[INDEX].decorators[0].name`	String	`floorPlanProperties`	The name of this geo-fence.
`ra[INDEX].decorators[0].polygon`	Array	`N/A`	
`ra[INDEX].decorators[0].polygon[0]`	Object	`N/A`	An object containing the X AND Y coordinates that define a point in the geo-fence boundary.
`ra[INDEX].decorators[0].polygon[0].x`	Number	`601.3897`	The X coordinate in pixels.
`ra[INDEX].decorators[0].polygon[0].y`	Number	`687.0397`	The Y coordinate in pixels.
`ra[INDEX].decorators[0].text`	Object	`N/A`	An object that contains the geo-fence text properties.
`ra[INDEX].decorators[0].text.fontSize`	Number	`12`	The font size in pixels.
`ra[INDEX].decorators[0].text.position`	String	`top-center`	The font position.

Property	Type	Example Value	Description
ra[INDEX].decorators[0].updatedTime	String	2019-08-28T11:45:08.151-0400	The time this decorator was last updated.
ra[INDEX].floor	Object	N/A	An object whose properties describe the floor to which this geo-fence belongs.
ra[INDEX].floor.name	String	DeleteFloor	The name of the floor.
ra[INDEX].floor.publicId	String	F1	The Published ID value for this floor.
ra[INDEX].hysteresis	Number	0.0	A margin included inside and outside the geo-fence boundary before alarms or events are generated, to accommodate location accuracy error.
ra[INDEX].hysteresisEnabled	Boolean	true	Whether hysteresis is enabled for this geo-fence.
ra[INDEX].isEnabled	Boolean	true	Whether this geo-fence is enabled to trigger actions and rules.
ra[INDEX].isHidden	Boolean	true	Whether this geo-fence is hidden on the floor plan.
ra[INDEX].name	String	Sample	The name of this geo-fence type.
ra[INDEX].rules[0]	Array	N/A	An optional array of objects whose properties describe an alarm or event rule.
ra[INDEX].rules[0].actions	Object	N/A	An array whose objects described the supported rule actions (e.g., ALARM, EVENT).

Property	Type	Example Value	Description
ra[INDEX].rules[0].createdTime	String	2019-08-26T15:34:14.484-0400	The time this rule was created.
ra[INDEX].rules[0].rule	Object	N/A	An object whose properties describe the rule.
ra[INDEX].rules[0].rule.id	String	953eb0ab-0216-4940-8950-cadee84f96cc	The unique ID of this rule.
ra[INDEX].rules[0].rule.name	String	Entry	The name of this rule.
ra[INDEX].rules[0].scopes	Array	N/A	An array of scope objects.
ra[INDEX].rules[0].scopes[0]	Object	N/A	An object whose properties describe the scope.
ra[INDEX].rules[0].scopes[0].appliesTo	String	DEPARTMENT	The category type to which this scope applies.
ra[INDEX].rules[0].scopes[0].appliesToId	String	34f3a24f-e515-4427-b715-7c90721072a0	The ID to which is scope applies.
ra[INDEX].rules[0].scopes[0].id	String	f9bbcdc1-9e47-4ed0-a36f-b555bccb3be9	The unique ID of this scope.
ra[INDEX].rules[0].updatedTime	String	2019-09-03T13:22:31.935-0400	The time this rule was last updated.
ra[INDEX].type	Object	N/A	An object containing the type properties of this geo-fence.
ra[INDEX].type.id	String	3322c868-eee6-11e8-8eb2-f2801f1b9fd1	The geo-fence ID.
ra[INDEX].type.isDefault	Boolean	true	Whether this is one of the three default geo-fence types (Safety/Security, Analytics, Boundary).
ra[INDEX].type.name	String	Safety/Security	The name of this geo-fence type.

Property	Type	Example Value	Description
ra[INDEX].updatedBy	String	44bb677d-c701-45af-a71d-f92ea16712ad	The access token used to update this geo-fence.
ra[INDEX].updatedTime	String	2019-08-28T11:45:08.151-0400	The time this geo-fence was most recently updated.

4.7.3 – Get All Geo-Fences – Identity List

Returns an identity list of all configured geo-fences.

HTTP Header Fields

```
GET /v2/rtls/public/geofences/identity HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/geofences/identity
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/geofences/identity
```

JSON Body Example

```
[
    {
        "name": "Neo-Natal"
    },
    {
        "name": "Emergency"
    },
    {
        "name": "Cardiology"
    },
    {
        "name": "Receiving"
    },
]
```

JSON Response Values

Using `ra` as the All Geo-Fences - Identity List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
ra[INDEX].name	String	Emergency	The name of the geo-fence.

4.8 – Get a Single Geo-Fence by ID

This section contains API calls for viewing a geo-fence that matches a specified ID.

NOTE
Geo-Fence IDs are not included in the Published ID export and are called by UUID, which can be obtained with the Get All Geo-Fences – Detail List *call.*

4.8.1 – Geo-Fence by ID – Detail List

Returns a detail list of a specified geo-fence.

HTTP Header Fields

```
GET /v2/rtls/public/geofences/<GEO-FENCE-TOKEN>/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/geofences/<GEO-FENCE-TOKEN>/detail
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<GEO-FENCE-TOKEN>` - Case-sensitive ID of the geo-fence being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/geofences/a612eb71-f527-4b4d-a44a-ad4190df05a9/detail
```

JSON Body Example


```
{
    "createdBy": "bcda585b-a4e5-46df-b89c-65a629f6844f",
    "createdTime": "2019-08-28T11:45:08.151-0400",
    "decorators": [
        {
            "createdTime": "2019-08-28T13:55:20.659-0400",
            "id": "04721c8c-d11b-162d-baea-568ecae24562",
            "isViewable": true,
            "name": "floorPlanProperties",
            "polygon": [
                {
                    "x": 142.39656,
                    "y": 166.78516
                },
                {
                    "x": 420.4534,
                    "y": 188.49336
                }
            ],
            "text": {
                "fontSize": 12,
                "position": "top-center"
            },
            "updatedTime": "2019-08-28T13:55:20.659-0400"
        }
    ],
    "floor": {
        "name": "DeleteFloor",
        "publicId": "F1"
    },
```

```
    "hysteresis": 0.0,
    "hysteresisEnabled": true,
    "isEnabled": true,
    "isHidden": true,
    "name": "MyGeoasf",
    "rules": [
        {
            "actions": [
                "ALARM",
                "EVENT"
            ],
            "createdTime": "2019-08-28T08:07:23.946-0400",
            "rule": {
                "id": "9cbc08fb-767c-415e-a8c0-9eaa546058d4",
                "name": "Exit"
            },
            "scopes": [
                {
                    "appliesTo": "ASSET",
                    "appliesToId": "129a292a-e279-4dab-bb8e-42d10d869a35",
                    "id": "129a292a-e279-4dab-bb8e-42d10d869a35"
                },
                {
                    "appliesTo": "ASSET",
                    "appliesToId": "affa0d6b-955c-4d1a-b662-2b80b8a43440",
                    "id": "affa0d6b-955c-4d1a-b662-2b80b8a43440"
                },
                {
                    "appliesTo": "ASSET",
                    "appliesToId": "f1e88f91-b2e4-49b7-a885-97c11f9482cc",
                    "id": "f1e88f91-b2e4-49b7-a885-97c11f9482cc"
                }
            ],
            "updatedTime": "2019-08-28T14:47:52.991-0400"
        }
    ],
    "type": {
        "id": "3322c868-eee6-11e8-8eb2-f2801f1b9fd1",
        "isDefault": true,
        "name": "Safety/Security"
    },
    "updatedBy": "3e18ca5c-5f7f-4731-86ad-86dda63f0933",
    "updatedTime": "2019-08-28T14:47:52.991-0400"
}
```


JSON Response Values

Using `ro` as the Geo-Fence by ID - Detail List response object in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ro.createdBy`	String	`bcda585b-a4e5-46df-b89c-65a629f6844f`	The authentication token used create this geo-fence.
`ro.createdTime`	String	`2019-08-28T11:45:08.151-0400`	The time this geo-fence was created.
`ro.decorators`	Array	`N/A`	An array whose objects describe the geo-fence.
`ro.decorators[0].createdTime`	String	`2019-08-28T11:45:08.151-0400`	The time this geo-fence was created.
`ro.decorators[0].id`	Boolean	`true`	The geo-fence ID (UUID).

Property	Type	Example Value	Description
ro.decorators[0].isViewable	String	04721c8c-d11b-162d-baea-568ecae24562	Whether this geo-fence is visible on the floor plan.
ro.decorators[0].name	String	floorPlanProperties	The name of this geo-fence.
ro.decorators[0].polygon	Array	N/A	
ro.decorators[0].polygon[0]	Object	N/A	An object containing the X and Y coordinates that define a point in the geo-fence boundary.
ro.decorators[0].polygon[0].x	Number	601.3897	The X coordinate in pixels.
ro.decorators[0].polygon[0].y	Number	687.0397	The Y coordinate in pixels.
ro.decorators[0].text	Object	N/A	An object that contains the geo-fence text properties.
ro.decorators[0].text.fontSize	Number	12	The text font size in pixels.
ro.decorators[0].text.position	String	top-center	The text position.
ro.decorators[0].updatedTime	String	2019-08-28T13:55:20.659-0400	The time this decorator was last updated.
ro.floor	Object	N/A	An object whose properties describe the floor to which this geo-fence belongs.
ro.floor.name	String	DeleteFloor	The name of the floor.
ro.floor.publicId	String	F1	The Published ID value for this floor.
ro.hysteresis	Number	0.0	A margin included inside and outside the geo-fence boundary before alarms or events are generated, to accommodate location accuracy error.
ro.hysteresisEnabled	Boolean	true	Whether hysteresis is enabled for this geo-fence.
ro.isEnabled	Boolean	true	Whether this geo-fence is enabled to trigger actions and rules.
ro.isHidden	Boolean	true	Whether this geo-fence is hidden on the floor plan.
ro.name	String	MyGeoasf	The name of this geo-fence.
ro.rules	Array	N/A	An array that contains one or more objects describing the rules that belong to this geo-fence.

Property	Type	Example Value	Description
ro.rules[INDEX].actions	Array	ALARM,EVENT	The actions defined by this rule.
ro.rules[INDEX].createdTime	String	2019-08-28T08:07:23.946-0400	The date and time this rule was created.
ro.rules[INDEX].rule	Object	N/A	An object that contains the rule properties.
ro.rules[INDEX].rule.id	String	9cbc08fb-767c-415e-a8c0-9eaa546058d4	The unique ID of this rule.
ro.rules[INDEX].rule.name	String	Exit	The name of this rule.
ro.rules[INDEX].scopes	Array	N/A	An array that contains the assets to which this rule applies.
ro.rules[INDEX].scopes[INDEX]	Object	N/A	An object that describes this scope.
ro.rules[INDEX].scopes[INDEX].appliesTo	String	ASSET	The entity type to which this scope applies.
ro.rules[INDEX].scopes[INDEX].appliesToId	String	129a292a-e279-4dab-bb8e-42d10d869a35	The unique ID of the entity to which this scope applies.
ro.rules[INDEX].scopes[INDEX].id	String	129a292a-e279-4dab-bb8e-42d10d869a35	The unique ID of this scope.
ro.rules[INDEX].updatedTime	String	2019-08-28T14:47:52.991-0400	The date and time this rule was last updated.
ro.type	Object	N/A	An object containing the type properties of this geo-fence.
ro.type.id	String	3322c868-eee6-11e8-8eb2-f2801f1b9fd1	The geo-fence ID.
ro.type.isDefault	Boolean	true	Whether this is one of the three default geo-fence types (Safety/Security, Analytics, Boundary).
ro.type.name	String	Safety/Security	The name of this geo-fence type.
ro.updatedBy	String	3e18ca5c-5f7f-4731-86ad-86dda63f0933	The access token used to update this geo-fence.
ro.updatedTime	String	2019-08-28T14:47:52.991-0400	The time this geo-fence was most recently updated.

4.8.2 – Geo-Fence by ID – Display List

Returns a display list of a specified geo-fence.

HTTP Header Fields

```
GET /v2/rtls/public/geofences/<GEO-FENCE-TOKEN>/display HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/geofences/<GEO-FENCE-TOKEN>/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<GEO-FENCE-TOKEN>` - Case-sensitive ID of the geo-fence being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/geofences/a612eb71-f527-4b4d-a44a-ad4190df05a9/display
```

JSON Body Example


```
{
    "decorators": [
        {
            "createdTime": "2019-08-28T13:55:20.659-0400",
            "id": "04721c8c-d11b-162d-baea-568ecae24562",
            "isViewable": true,
            "name": "floorPlanProperties",
            "polygon": [
                {
                    "x": 142.39656,
                    "y": 166.78516
                },
                {
                    "x": 420.4534,
                    "y": 188.49336
                }
            ],
            "text": {
                "fontSize": 12,
                "position": "top-center"
            },
            "updatedTime": "2019-08-28T13:55:20.659-0400"
        }
    ],
    "floor": {
        "name": "DeleteFloor",
        "publicId": "F1"
    },
    "hysteresis": 0.0,
    "hysteresisEnabled": true,
    "isEnabled": true,
    "isHidden": true,
    "name": "MyGeoasf",
    "rules": [
        {
            "actions": [
                "ALARM",
```

```
                "EVENT"
            ],
            "createdTime": "2019-08-28T08:07:23.946-0400",
            "rule": {
                "id": "9cbc08fb-767c-415e-a8c0-9eaa546058d4",
                "name": "Exit"
            },
            "scopes": [
                {
                    "appliesTo": "ASSET",
                    "appliesToId": "129a292a-e279-4dab-bb8e-42d10d869a35",
                    "id": "129a292a-e279-4dab-bb8e-42d10d869a35"
                },
                {
                    "appliesTo": "ASSET",
                    "appliesToId": "affa0d6b-955c-4d1a-b662-2b80b8a43440",
                    "id": "affa0d6b-955c-4d1a-b662-2b80b8a43440"
                },
                {
                    "appliesTo": "ASSET",
                    "appliesToId": "f1e88f91-b2e4-49b7-a885-97c11f9482cc",
                    "id": "f1e88f91-b2e4-49b7-a885-97c11f9482cc"
                }
            ],
            "updatedTime": "2019-08-28T14:47:52.991-0400"
        }
    ],
    "type": {
        "id": "3322c868-eee6-11e8-8eb2-f2801f1b9fd1",
        "isDefault": true,
        "name": "Safety/Security"
    },
    "updatedBy": "3e18ca5c-5f7f-4731-86ad-86dda63f0933",
    "updatedTime": "2019-08-28T14:47:52.991-0400"
}
```


JSON Response Values

Using `ro` as the Geo-Fence by ID - Display List response object in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ro.decorators`	Array	`N/A`	An array whose objects describe the geo-fence.
`ro.decorators[0].createdTime`	String	`2019-08-28T11:45:08.151-0400`	The time this geo-fence was created.
`ro.decorators[0].id`	Boolean	`true`	The geo-fence ID (UUID).
`ro.decorators[0].isViewable`	String	`04721c8c-d11b-162d-baea-568ecae24562`	Whether this geo-fence is visible on the floor plan.
`ro.decorators[0].name`	String	`floorPlanProperties`	The name of this geo-fence.
`ro.decorators[0].polygon`	Array	`N/A`	
`ro.decorators[0].polygon[0]`	Object	`N/A`	An object containing the X and Y coordinates that define a point in the geo-fence boundary.
`ro.decorators[0].polygon[0].x`	Number	`601.3897`	The X coordinate in pixels.

Property	Type	Example Value	Description
ro.decorators[0].polygon[0].y	Number	687.0397	The Y coordinate in pixels.
ro.decorators[0].text	Object	N/A	An object that contains the geo-fence text properties.
ro.decorators[0].text.fontSize	Number	12	The text font size in pixels.
ro.decorators[0].text.position	String	top-center	The text position.
ro.decorators[0].updatedTime	String	2019-08-28T13:55:20.659-0400	The time this decorator was last updated.
ro.floor	Object	N/A	An object whose properties describe the floor to which this geo-fence belongs.
ro.floor.name	String	DeleteFloor	The name of the floor.
ro.floor.publicId	String	F1	The Published ID value for this floor.
ro.hysteresis	Number	0.0	A margin included inside and outside the geo-fence boundary before alarms or events are generated, to accommodate location accuracy error.
ro.hysteresisEnabled	Boolean	true	Whether hysteresis is enabled for this geo-fence.
ro.isEnabled	Boolean	true	Whether this geo-fence is enabled to trigger actions and rules.
ro.isHidden	Boolean	true	Whether this geo-fence is hidden on the floor plan.
ro.name	String	MyGeoasf	The name of this geo-fence.
ro.rules	Array	N/A	An array that contains one or more objects describing the rules that belong to this geo-fence.
ro.rules[INDEX].actions	Array	ALARM,EVENT	The actions defined by this rule.
ro.rules[INDEX].createdTime	String	2019-08-28T08:07:23.946-0400	The date and time this rule was created.
ro.rules[INDEX].rule	Object	N/A	An object that contains the rule properties.

Property	Type	Example Value	Description
ro.rules[INDEX].rule.id	String	9cbc08fb-767c-415e-a8c0-9eaa546058d4	The unique ID of this rule.
ro.rules[INDEX].rule.name	String	Exit	The name of this rule.
ro.rules[INDEX].scopes	Array	N/A	An array that contains the assets to which this rule applies.
ro.rules[INDEX].scopes[INDEX]	Object	N/A	An object that describes this scope.
ro.rules[INDEX].scopes[INDEX].appliesTo	String	ASSET	The entity type to which this scope applies.
ro.rules[INDEX].scopes[INDEX].appliesToId	String	129a292a-e279-4dab-bb8e-42d10d869a35	The unique ID of the entity to which this scope applies.
ro.rules[INDEX].scopes[INDEX].id	String	129a292a-e279-4dab-bb8e-42d10d869a35	The unique ID of this scope.
ro.rules[INDEX].updatedTime	String	2019-08-28T14:47:52.991-0400	The date and time this rule was last updated.
ro.type	Object	N/A	An object containing the type properties of this geo-fence.
ro.type.id	String	3322c868-eee6-11e8-8eb2-f2801f1b9fd1	The geo-fence ID.
ro.type.isDefault	Boolean	true	Whether this is one of the three default geo-fence types (Safety/Security, Analytics, Boundary).
ro.type.name	String	Safety/Security	The name of this geo-fence type.
ro.updatedBy	String	3e18ca5c-5f7f-4731-86ad-86dda63f0933	The access token used to update this geo-fence.
ro.updatedTime	String	2019-08-28T14:47:52.991-0400	The time this geo-fence was most recently updated.

4.8.3 – Geo-Fence by ID – Identity List

Returns an identity list of a specified geo-fence.

HTTP Header Fields

```
GET /v2/rtls/public/geofences/<GEO-FENCE-TOKEN>/identity HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/geofences/<GEO-FENCE-TOKEN>/identity
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<GEO-FENCE-TOKEN>` - Case-sensitive ID of the geo-fence being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/geofences/a612eb71-f527-4b4d-a44a-ad4190df05a9/identity
```

JSON Body Example

```
{
    "name": "MyGeoasf"
}
```

JSON Response Values

Using `ro` as the Geo-Fence by ID - Identity List response object in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ro.name`	String	`MyGeoasf`	The name of the specified geo-fence.

5 – Operating Data Calls

This chapter describes API calls that return operating data, such as a list of geo-fence alarms.

5.1 – Get Geo-Fence Alarms for All Assets

This section contains API calls for viewing a list of all geo-fence alarms across all assets.

5.1.1 – All Geo-Fence Alarms – Detail List

HTTP Header Fields

```
GET /v2/rtls/public/alarms/geofences/assets/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/alarms/geofences/assets/detail
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/alarms/geofences/assets/detail
```

JSON Body Example

```
[
    {
        "updatedTime": "2019-09-11T10:27:34.357919-04:00",
        "createdTime": "2019-09-11T10:27:34.357629-04:00",
        "description": "Tag A1549B entered in NewGeo!",
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:27:34.354Z",
        "sourceType": "Defibrillators",
        "sourceName": "Office_Tag_0DF7_Button",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_4"
    },
    {
        "updatedTime": "2019-09-11T10:25:19.358383-04:00",
        "createdTime": "2019-09-11T10:25:19.358188-04:00",
        "description": "Tag A1549B entered in NewGeo!",
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:25:19.355Z",
        "sourceType": "Defibrillators",
        "sourceName": "Office_Tag_0DF7_Button",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_4"
    }
]
```

JSON Response Values

Using `ra` as the All Geo-Fence Alarms - Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and alarm properties.

Property	Type	Example Value	Description
ra[INDEX].updatedTime	String	2019-09-10T08:28:36.272-0400	The time the asset in alarm was most recently updated.
ra[INDEX].createdTime	String	2019-09-10T08:28:36.271-0400	The time that the asset in alarm was created.
ra[INDEX].description	String	Tag A1549B entered in NewGeo!	The description of this alarm.
ra[INDEX].status	String	ACTIVE	Whether this alarm is active.
ra[INDEX].occurenceTime	String	2019-09-11T14:27:34.354Z	The time this alarm became active.
ra[INDEX].sourceType	String	Defibrillators	The type of asset associated with this alarm.
ra[INDEX].sourceName	String	Office_Tag_0DF7_Button	The name of the asset associated with this alarm.
ra[INDEX].errorCode	String	RTLS.RULE.I.2001	Trellix internal use only.
ra[INDEX].sourcePublicId	String	Office_4	The Published ID of this asset.

5.1.2 – All Geo-Fence Alarms – Display List

HTTP Header Fields

```
GET /v2/rtls/public/alarms/geofences/assets/display HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/alarms/geofences/assets/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/alarms/geofences/assets/display
```

JSON Body Example

```
[
    {
        "updatedTime": "2019-09-11T10:27:34.357919-04:00",
        "createdTime": "2019-09-11T10:27:34.357629-04:00",
        "description": "Tag A1549B entered in NewGeo!",
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:27:34.354Z",
        "sourceType": "Defibrillators",
        "sourceName": "Office_Tag_0DF7_Button",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_4"
    },
    {
```

```
        "updatedTime": "2019-09-11T10:25:19.358383-04:00",
        "createdTime": "2019-09-11T10:25:19.358188-04:00",
        "description": "Tag A1549B entered in NewGeo!",
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:25:19.355Z",
        "sourceType": "Defibrillators",
        "sourceName": "Office_Tag_0DF7_Button",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_4"
    }
]
```


JSON Response Values

Using `ra` as the All Geo-Fence Alarms - Display List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and alarm properties.
`ra[INDEX].updatedTime`	String	`2019-09-10T08:28:36.272-0400`	The time the asset in alarm was most recently updated.
`ra[INDEX].createdTime`	String	`2019-09-10T08:28:36.272-0400`	The time the asset in alarm was created.
`ra[INDEX].description`	String	`Tag A1549B entered in NewGeo!`	The description of this alarm.
`ra[INDEX].status`	String	`ACTIVE`	Whether this alarm is active.
`ra[INDEX].occurenceTime`	String	`2019-09-11T14:27:34.354Z`	The time this alarm became active.
`ra[INDEX].sourceType`	String	`Defibrillators`	The type of asset associated with this alarm.
`ra[INDEX].sourceName`	String	`Office_Tag_0DF7_Button`	The name of the asset associated with this alarm.
`ra[INDEX].errorCode`	String	`RTLS.RULE.I.2001`	Trellix internal use only.
`ra[INDEX].sourcePublicId`	Boolean	`Office_4`	The Published ID of this asset.

5.1.3 – All Geo-Fence Alarms – Identity List

HTTP Header Fields

```
GET /v2/rtls/public/alarms/geofences/assets/identity HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/alarms/geofences/assets/identity
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/alarms/geofences/assets/identity
```

JSON Body Example

```
[
    {
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:27:34.354Z",
        "sourceName": "Office_Tag_0DF7_Button",
        "sourcePublicId": "Office_4"
    },
    {
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:22:49.353Z",
        "sourceName": "Office_Tag_0DF7_Button",
        "sourcePublicId": "Office_4"
    }
]
```

JSON Response Values

Using `ra` as the All Geo-Fence Alarms - Identity List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX].status`	String	`ACTIVE`	Whether this alarm is active.
`ra[INDEX].occurenceTime`	String	`2019-09-11T14:27:34.354Z`	The time this alarm became active.
`ra[INDEX].sourceName`	String	`Office_Tag_0DF7_Button`	The name of the asset associated with this alarm.
`ra[INDEX]. sourcePublicId`	Boolean	`false`	Whether the tag is assigned to an asset.

5.1.4 – Geo-Fence Alarms by Asset Type – Detail List

Returns a detail list of geo-fence alarms that match a specified asset type.

HTTP Header Fields

```
GET /v2/rtls/public/alarms/geofences/assets/detail?assetTypeId=<ASSET-TYPE-ID> HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/alarms/geofences/assets/detail?assetTypeId=<ASSET-
TYPE-ID>
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-TYPE-ID>` - Case-sensitive asset type for which alarms will be listed.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/alarms/geofences/assets/detail?assetTypeId=11c9f4e4-6852-
11e9-a923-1681be663d3e
```

JSON Body Example


```
[
    {
        "updatedTime": "2019-09-11T09:57:27.496097-04:00",
        "createdTime": "2019-09-10T23:54:26.856791-04:00",
        "description": "Tag 2646D9 entered in NewGeo!",
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:54:26.852Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    },
    {
        "updatedTime": "2019-09-11T09:57:27.484397-04:00",
        "createdTime": "2019-09-10T23:53:56.864702-04:00",
        "description": "Tag 2646D9 entered in NewGeo!",
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:53:56.858Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    },
    {
        "updatedTime": "2019-09-11T09:57:27.473062-04:00",
        "createdTime": "2019-09-10T23:53:19.367149-04:00",
        "description": "Tag 2646D9 entered in NewGeo!",
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:53:19.363Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    }
]
```


JSON Response Values

Using `ra` as the Geo-Fence Alarms by Asset Type - Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and alarm properties.
`ra[INDEX].updatedTime`	String	`2019-09-10T08:28:36.272-0400`	The time the asset in alarm was most recently updated.
`ra[INDEX].createdTime`	String	`2019-09-10T08:28:36.271-0400`	The time that the asset in alarm was created.
`ra[INDEX].description`	String	`Tag A1549B entered in NewGeo!`	The description of this alarm.
`ra[INDEX].status`	String	`ACTIVE`	Whether this alarm is active.
`ra[INDEX].occurenceTime`	String	`2019-09-11T14:27:34.354Z`	The time this alarm became active.
`ra[INDEX].sourceType`	String	`Defibrillators`	The asset type specified in the request.
`ra[INDEX].sourceName`	String	`Office_Tag_0DF7_Button`	The name of the asset associated with this alarm.

Property	Type	Example Value	Description
ra[INDEX].errorCode	String	RTLS.RULE.I.2001	Trellix internal use only.
ra[INDEX].sourcePublicId	String	Office_1	The Published ID of the assigned asset.

5.1.5 – Geo-Fence Alarms by Asset Type – Display List

Returns a display list of geo-fence alarms that match a specified asset type.

HTTP Header Fields

```
GET /v2/rtls/public/alarms/geofences/assets/display?assetTypeId=<ASSET-TYPE-ID> HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/alarms/geofences/assets/display?assetTypeId=<ASSET-
TYPE-ID>
```

Where:

- <HOST-IP> - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- <HOST-PORT> - IP port on the Trellix Locate API server. Default is 8081.
- <TOKEN-TYPE> - Type of authentication token (always *bearer*).
- <ACCESS-TOKEN> - Locate API token returned in a Get Public Login Token request.
- <ASSET-TYPE-ID> - Case-sensitive asset type for which alarms will be listed.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/alarms/geofences/assets/display?assetTypeId=11c9f4e4-6852-
11e9-a923-1681be663d3e
```

JSON Body Example


```
[
    {
        "updatedTime": "2019-09-11T09:57:27.496097-04:00",
        "description": "Tag 2646D9 entered in NewGeo!",
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:54:26.852Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    },
    {
        "updatedTime": "2019-09-11T09:57:27.484397-04:00",
        "description": "Tag 2646D9 entered in NewGeo!",
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:53:56.858Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    },
    {
        "updatedTime": "2019-09-11T09:57:27.473062-04:00",
        "description": "Tag 2646D9 entered in NewGeo!",
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:53:19.363Z",
        "sourceType": "Aerosol Tents",
```

```
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    }
]
```

JSON Response Values

Using `ra` as the Geo-Fence Alarms by Asset Type - Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and alarm properties.
`ra[INDEX].updatedTime`	String	`2019-09-11T09:57:27.496097-04:00`	The time the asset in alarm was most recently updated.
`ra[INDEX].description`	String	`Tag 2646D9 entered in NewGeo!`	The description of this alarm.
`ra[INDEX].status`	String	`ACKNOWLEDGED`	Whether this alarm is active.
`ra[INDEX].occurenceTime`	String	`2019-09-11T03:54:26.852Z`	The time this alarm became active.
`ra[INDEX].sourceType`	String	`Aerosol Tents`	The asset type specified in the request.
`ra[INDEX].sourceName`	String	`Office_Tag_46D9_Battery`	The name of the asset associated with this alarm.
`ra[INDEX].errorCode`	String	`RTLS.RULE.I.2001`	Trellix internal use only.
`ra[INDEX].sourcePublicId`	String	`Office_1`	The Published ID of the assigned asset.

5.1.6 – Geo-Fence Alarms by Asset Type – Identity List

Returns an identity list of geo-fence alarms that match a specified asset type.

HTTP Header Fields

```
GET /v2/rtls/public/alarms/geofences/assets/identity?assetTypeId=<ASSET-TYPE-ID> HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/alarms/geofences/assets/identity?assetTypeId=<ASSET-TYPE-ID>
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-TYPE-ID>` - Case-sensitive asset type for which alarms will be listed.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/alarms/geofences/assets/identity?assetTypeId=11c9f4e4-6852-11e9-a923-1681be663d3e
```

JSON Body Example

```
[
    {
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:54:26.852Z",
        "sourceName": "Office_Tag_46D9_Battery",
        "sourcePublicId": "Office_1"
    },
    {
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:53:56.858Z",
        "sourceName": "Office_Tag_46D9_Battery",
        "sourcePublicId": "Office_1"
    },
    {
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:53:19.363Z",
        "sourceName": "Office_Tag_46D9_Battery",
        "sourcePublicId": "Office_1"
    }
]
```


JSON Response Values

Using `ra` as the Geo-Fence Alarms by Asset Type - Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and alarm properties.
`ra[INDEX].status`	String	`ACKNOWLEDGED`	Whether this alarm is active.
`ra[INDEX].occurenceTime`	String	`2019-09-11T03:54:26.852Z`	The time this alarm became active.
`ra[INDEX].sourceName`	String	`Office_Tag_46D9_Battery`	The name of the asset associated with this alarm.
`ra[INDEX].sourcePublicId`	String	`Office_1`	The Published ID of the assigned asset.

5.1.7 – Geo-Fence Alarms by Department – Detail List

Returns a detail list of geo-fence alarms that match a specified department.

HTTP Header Fields

```
GET /v2/rtls/public/alarms/geofences/assets/detail?departmentId=<DEPT-TYPE-ID> HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/alarms/geofences/assets/detail?departmentId=<DEPT-TYPE-ID>
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<DEPT-TYPE-ID>` - Case-sensitive department type for which alarms will be listed.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/alarms/geofences/assets/detail?departmentId=7f749bad-e65c-4150-ae5f-f49eecfe3878
```

JSON Body Example


```
[
    {
        "updatedTime": "2019-09-11T10:27:34.357919-04:00",
        "createdTime": "2019-09-11T10:27:34.357629-04:00",
        "description": "Tag A1549B entered in NewGeo!",
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:27:34.354Z",
        "sourceType": "Defibrillators",
        "sourceName": "Office_Tag_0DF7_Button",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_4"
    },
    {
        "updatedTime": "2019-09-11T10:25:19.358383-04:00",
        "createdTime": "2019-09-11T10:25:19.358188-04:00",
        "description": "Tag A1549B entered in NewGeo!",
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:25:19.355Z",
        "sourceType": "Defibrillators",
        "sourceName": "Office_Tag_0DF7_Button",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_4"
    },
    {
        "updatedTime": "2019-09-11T10:22:49.357392-04:00",
        "createdTime": "2019-09-11T10:22:49.35705-04:00",
        "description": "Tag A1549B entered in NewGeo!",
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:22:49.353Z",
        "sourceType": "Defibrillators",
        "sourceName": "Office_Tag_0DF7_Button",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_4"
    }
]
```


JSON Response Values

Using `ra` as the Geo-Fence Alarms by Department Type - Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and alarm properties.

Property	Type	Example Value	Description
ra[INDEX].updatedTime	String	2019-09-11T10:27:34.357919-04:00	The time the asset in alarm was most recently updated.
ra[INDEX].createdTime	String	2019-09-11T10:27:34.357629-04:00	The time that the asset in alarm was created.
ra[INDEX].description	String	Tag A1549B entered in NewGeo!	The description of this alarm.
ra[INDEX].status	String	ACTIVE	Whether this alarm is active.
ra[INDEX].occurenceTime	String	2019-09-11T14:27:34.354Z	The time this alarm became active.
ra[INDEX].sourceType	String	Defibrillators	The asset type.
ra[INDEX].sourceName	String	Office_Tag_0DF7_Button	The name of the asset associated with this alarm.
ra[INDEX].errorCode	String	RTLS.RULE.I.2001	Trellix internal use only.
ra[INDEX].sourcePublicId	String	Office_4	The Published ID of the assigned asset.

5.1.8 – Geo-Fence Alarms by Department – Display List

Returns a detail list of geo-fence alarms that match a specified department.

HTTP Header Fields

```
GET /v2/rtls/public/alarms/geofences/assets/display?departmentId=<DEPT-TYPE-ID> HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/alarms/geofences/assets/display?departmentId=<DEPT-TYPE-ID>
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<DEPT-TYPE-ID>` - Case-sensitive department type for which alarms will be listed.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/alarms/geofences/assets/display?departmentId=7f749bad-e65c-4150-ae5f-f49eecfe3878
```

JSON Body Example

```
[
    {
        "updatedTime": "2019-09-11T10:27:34.357919-04:00",
        "description": "Tag A1549B entered in NewGeo!",
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:27:34.354Z",
```

```
        "sourceType": "Defibrillators",
        "sourceName": "Office_Tag_0DF7_Button",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_4"
    },
    {
        "updatedTime": "2019-09-11T10:25:19.358383-04:00",
        "description": "Tag A1549B entered in NewGeo!",
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:25:19.355Z",
        "sourceType": "Defibrillators",
        "sourceName": "Office_Tag_0DF7_Button",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_4"
    },
    {
        "updatedTime": "2019-09-11T10:22:49.357392-04:00",
        "description": "Tag A1549B entered in NewGeo!",
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:22:49.353Z",
        "sourceType": "Defibrillators",
        "sourceName": "Office_Tag_0DF7_Button",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_4"
    }
]
```


JSON Response Values

Using `ra` as the Geo-Fence Alarms by Department Type - Display List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and alarm properties.
`ra[INDEX].updatedTime`	String	`2019-09-11T10:27:34.357919-04:00`	The time the asset in alarm was most recently updated.
`ra[INDEX].description`	String	`Tag A1549B entered in NewGeo!`	The description of this alarm.
`ra[INDEX].status`	String	`ACTIVE`	Whether this alarm is active.
`ra[INDEX].occurenceTime`	String	`2019-09-11T14:27:34.354Z`	The time this alarm became active.
`ra[INDEX].sourceType`	String	`Defibrillators`	The type of asset associated with the alarm.
`ra[INDEX].sourceName`	String	`Office_Tag_0DF7_Button`	The name of the asset associated with this alarm.
`ra[INDEX].errorCode`	String	`RTLS.RULE.I.2001`	Trellix internal use only.
`ra[INDEX].sourcePublicId`	String	`Office_4`	The Published ID of the assigned asset.

5.1.9 – Geo-Fence Alarms by Department – Identity List

Returns an identity list of geo-fence alarms that match a specified department.

HTTP Header Fields

```
GET /v2/rtls/public/alarms/geofences/assets/identity?departmentId=<DEPT-TYPE-ID> HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/alarms/geofences/assets/identity?departmentId=<DEPT-TYPE-ID>
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<DEPT-TYPE-ID>` - Case-sensitive department type for which alarms will be listed.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/alarms/geofences/assets/identity?departmentId=7f749bad-e65c-4150-ae5f-f49eecfe3878
```

JSON Body Example

```
[
    {
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:27:34.354Z",
        "sourceName": "Office_Tag_0DF7_Button",
        "sourcePublicId": "Office_4"
    },
    {
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:25:19.355Z",
        "sourceName": "Office_Tag_0DF7_Button",
        "sourcePublicId": "Office_4"
    },
    {
        "status": "ACTIVE",
        "occurrenceTime": "2019-09-11T14:22:49.353Z",
        "sourceName": "Office_Tag_0DF7_Button",
        "sourcePublicId": "Office_4"
    }
]
```


JSON Response Values

Using `ra` as the Geo-Fence Alarms by Department Type - Identity List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and alarm properties.
`ra[INDEX].status`	String	`ACTIVE`	Whether this alarm is active.
`ra[INDEX].occurenceTime`	String	`2019-09-11T14:27:34.354Z`	The time this alarm became active.

Property	Type	Example Value	Description
ra[INDEX].sourceName	String	Office_Tag_0DF7_Button	The name of the asset associated with this alarm.
ra[INDEX].sourcePublicId	String	Office_4	The Published ID of the assigned asset.

5.2 – Get Geo-Fence Alarms for a Single Asset

This section contains API calls for viewing a list of all geo-fence alarms for a specified asset.

5.2.1 – Geo-Fence Alarms for a Single Asset – Detail List

HTTP Header Fields

```
GET /v2/rtls/public/alarms/geofences/assets/<ASSET-ID>/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/alarms/geofences/assets/<ASSET-ID>/detail
```

Where:

- <HOST-IP> - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- <HOST-PORT> - IP port on the Trellix Locate API server. Default is 8081.
- <TOKEN-TYPE> - Type of authentication token (always *bearer*).
- <ACCESS-TOKEN> - Locate API token returned in a Get Public Login Token request.
- <ASSET-ID> - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/alarms/geofences/assets/Office_1/detail
```

JSON Body Example


```
[
    {
        "updatedTime": "2019-09-11T09:57:27.496097-04:00",
        "createdTime": "2019-09-10T23:54:26.856791-04:00",
        "description": "Tag 2646D9 entered in NewGeo!",
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:54:26.852Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    },
    {
        "updatedTime": "2019-09-11T09:57:27.484397-04:00",
        "createdTime": "2019-09-10T23:53:56.864702-04:00",
        "description": "Tag 2646D9 entered in NewGeo!",
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:53:56.858Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    }
]
```

JSON Response Values

Using `ra` as the Geo-Fence Alarms for a Single Asset - Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and alarm properties.
`ra[INDEX].updatedTime`	String	`2019-09-11T09:57:27.496097-04:00`	The time the asset in alarm was most recently updated.
`ra[INDEX].createdTime`	String	`2019-09-10T23:54:26.856791-04:00`	The time that the asset in alarm was created.
`ra[INDEX].description`	String	`Tag 2646D9 entered in NewGeo!`	The description of this alarm.
`ra[INDEX].status`	String	`ACKNOWLEDGED`	Whether this alarm is active.
`ra[INDEX].occurenceTime`	String	`2019-09-11T03:54:26.852Z`	The time this alarm became active.
`ra[INDEX].sourceType`	String	`Aerosol Tents`	The type of asset associated with this alarm.
`ra[INDEX].sourceName`	String	`Office_Tag_46D9_Battery`	The name of the asset associated with this alarm.
`ra[INDEX].errorCode`	String	`RTLS.RULE.I.2001`	Trellix internal use only.
`ra[INDEX].sourcePublicId`	String	`Office_1`	The Published ID of this asset.

5.2.2 – Geo-Fence Alarms for a Single Asset – Display List

HTTP Header Fields

```
GET /v2/rtls/public/alarms/geofences/assets/<ASSET-ID>/display HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/alarms/geofences/assets/<ASSET-ID>/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/alarms/geofences/assets/Office_1/display
```

JSON Body Example

```
[
    {
        "updatedTime": "2019-09-11T09:57:27.496097-04:00",
```

```
        "description": "Tag 2646D9 entered in NewGeo!",
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:54:26.852Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    },
    {
        "updatedTime": "2019-09-11T09:57:27.484397-04:00",
        "description": "Tag 2646D9 entered in NewGeo!",
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:53:56.858Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    }
]
```


JSON Response Values

Using `ra` as the Geo-Fence Alarms for a Single Asset - Display List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and alarm properties.
`ra[INDEX].updatedTime`	String	`2019-09-11T09:57:27.496097-04:00`	The time the asset in alarm was most recently updated.
`ra[INDEX].description`	String	`Tag 2646D9 entered in NewGeo!`	The description of this alarm.
`ra[INDEX].status`	String	`ACKNOWLEDGED`	Whether this alarm is active.
`ra[INDEX].occurenceTime`	String	`2019-09-11T03:54:26.852Z`	The time this alarm became active.
`ra[INDEX].sourceType`	String	`Aerosol Tents`	The type of asset associated with this alarm.
`ra[INDEX].sourceName`	String	`Office_Tag_46D9_Battery`	The name of the asset associated with this alarm.
`ra[INDEX].errorCode`	String	`RTLS.RULE.I.2001`	Trellix internal use only.
`ra[INDEX].sourcePublicId`	String	`Office_1`	The Published ID of this asset.

5.2.3 – Geo-Fence Alarms for a Single Asset – Identity List

HTTP Header Fields

```
GET /v2/rtls/public/alarms/geofences/assets/<ASSET-ID>/identity HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/alarms/geofences/assets/<ASSET-ID>/identity
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/alarms/geofences/assets/Office_1/identity
```

JSON Body Example

```
[
    {
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:54:26.852Z",
        "sourceName": "Office_Tag_46D9_Battery",
        "sourcePublicId": "Office_1"
    },
    {
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:53:56.858Z",
        "sourceName": "Office_Tag_46D9_Battery",
        "sourcePublicId": "Office_1"
    },
    {
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2019-09-11T03:53:19.363Z",
        "sourceName": "Office_Tag_46D9_Battery",
        "sourcePublicId": "Office_1"
    }
]
```


JSON Response Values

Using `ra` as the Geo-Fence Alarms for a Single Asset - Identity List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and alarm properties.
`ra[INDEX].status`	String	`ACKNOWLEDGED`	Whether this alarm is active.
`ra[INDEX].occurenceTime`	String	`2019-09-11T03:54:26.852Z`	The time this alarm became active.
`ra[INDEX].sourceName`	String	`Office_Tag_46D9_Battery`	The name of the asset associated with this alarm.
`ra[INDEX].sourcePublicId`	String	`Office_1`	The Published ID of this asset.

5.3 – Get Geo-Fence Events for all Assets

5.3.1 – All Geo-Fence Events – Detail List

Returns a detail list of all geo-fence events for all assets.

HTTP Header Fields

```
GET /v2/rtls/public/events/geofences/assets/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/events/geofences/assets/detail
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/events/geofences/assets/detail
```

JSON Body Example

```
[
    {
        "updatedTime": "2019-09-16T08:07:50.416274-04:00",
        "createdTime": "2019-09-16T08:07:50.416149-04:00",
        "description": "Tag 2646D9 exited from GeoAlarmOnly!",
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:07:50.413Z",
        "sourceType": "Aerosol_Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    },
    {
        "updatedTime": "2019-09-16T08:07:50.404172-04:00",
        "createdTime": "2019-09-16T08:07:50.403982-04:00",
        "description": "Tag 2646D6 entered in GeoAlarmOnly!",
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:07:50.400Z",
        "sourceType": "Babies",
        "sourceName": "Office_Tag_46D6_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_2"
    },
    {
        "updatedTime": "2019-09-16T08:07:42.981857-04:00",
        "createdTime": "2019-09-16T08:07:42.981706-04:00",
        "description": "Tag 2646D6 exited from GeoAlarmOnly!",
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:07:42.975Z",
        "sourceType": "Babies",
        "sourceName": "Office_Tag_46D6_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_2"
    }
]
```

JSON Response Values

Using `ra` as the Geo-Fence Events for All Assets - Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and event properties.
`ra[INDEX].updatedTime`	String	`2019-09-16T08:07:50.416274-04:00`	The time the asset in event was most recently updated.
`ra[INDEX].createdTime`	String	`2019-09-16T08:07:50.416149-04:00`	The time that the asset in event was created.
`ra[INDEX].description`	String	`Tag 2646D9 exited from GeoAlarmOnly!`	The description of this event.
`ra[INDEX].errorEventType`	String	`I`	The type of this event.
`ra[INDEX].occurenceTime`	String	`2019-09-16T12:07:50.413Z`	The time this event became active.
`ra[INDEX].sourceType`	String	`Aerosol Tents`	The type of asset associated with this event.
`ra[INDEX].sourceName`	String	`Office_Tag_46D9_Battery`	The name of the asset associated with this event.
`ra[INDEX].errorCode`	String	`RTLS.RULE.I.2001`	Trellix internal use only.
`ra[INDEX].sourcePublicId`	String	`Office_1`	The Published ID of this asset.

5.3.2 – All Geo-Fence Events – Display List

Returns a display list of all geo-fence events for all assets.

HTTP Header Fields

```
GET /v2/rtls/public/events/geofences/assets/display HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/events/geofences/assets/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/events/geofences/assets/display
```

JSON Body Example


```
[
    {
        "updatedTime": "2019-09-16T08:07:50.416274-04:00",
        "description": "Tag 2646D9 exited from GeoAlarmOnly!",
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:07:50.413Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    },
    {
        "updatedTime": "2019-09-16T08:07:50.404172-04:00",
        "description": "Tag 2646D6 entered in GeoAlarmOnly!",
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:07:50.400Z",
        "sourceType": "Babies",
        "sourceName": "Office_Tag_46D6_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_2"
    },
    {
        "updatedTime": "2019-09-16T08:07:42.981857-04:00",
        "description": "Tag 2646D6 exited from GeoAlarmOnly!",
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:07:42.975Z",
        "sourceType": "Babies",
        "sourceName": "Office_Tag_46D6_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_2"
    }
]
```


JSON Response Values

Using `ra` as the Geo-Fence Events for All Assets - Display List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and event properties.
`ra[INDEX].updatedTime`	String	`2019-09-16T08:07:50.416274-04:00`	The time the asset in event was most recently updated.
`ra[INDEX].description`	String	`Tag 2646D9 exited from GeoAlarmOnly!`	The description of this event.
`ra[INDEX].errorEventType`	String	`I`	The type of this event.
`ra[INDEX].occurenceTime`	String	`2019-09-16T12:07:50.413Z`	The time this event became active.
`ra[INDEX].sourceType`	String	`Aerosol Tents`	The type of asset associated with this event.
`ra[INDEX].sourceName`	String	`Office_Tag_46D9_Battery`	The name of the asset associated with this event.
`ra[INDEX].errorCode`	String	`RTLS.RULE.I.2001`	Trellix internal use only.

Property	Type	Example Value	Description
`ra[INDEX].sourcePublicId`	String	`Office_1`	The Published ID of this asset.

5.3.3 – All Geo-Fence Events – Identity List

Returns an identity list of all geo-fence events for all assets.

HTTP Header Fields

```
GET /v2/rtls/public/events/geofences/assets/identity HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/events/geofences/assets/identity
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/events/geofences/assets/identity
```

JSON Body Example

```
[
    {
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:07:50.413Z",
        "sourceName": "Office_Tag_46D9_Battery",
        "sourcePublicId": "Office_1"
    },
    {
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:07:50.400Z",
        "sourceName": "Office_Tag_46D6_Battery",
        "sourcePublicId": "Office_2"
    },
    {
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:07:42.975Z",
        "sourceName": "Office_Tag_46D6_Battery",
        "sourcePublicId": "Office_2"
    }
]
```

JSON Response Values

Using `ra` as the Geo-Fence Events for All Assets - Identity List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and event properties.
`ra[INDEX].errorEventType`	String	`I`	The type of this event.

Property	Type	Example Value	Description
ra[INDEX].occurenceTime	String	2019-09-16T12:07:50.413Z	The time this event became active.
ra[INDEX].sourceName	String	Office_Tag_46D9_Battery	The name of the asset associated with this event.
ra[INDEX].sourcePublicId	String	Office_1	The Published ID of this asset.

5.4 – Get Geo-Fence Events for a Single Asset

5.4.1 – Geo-Fence Events for a Single Asset – Detail List

Returns a detail list of all geo-fence events for a single asset.

HTTP Header Fields

```
GET /v2/rtls/public/events/geofences/assets/<ASSET-ID>/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/events/geofences/assets/<ASSET-ID>/detail
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/events/geofences/assets/Office_1/detail
```

JSON Body Example


```
[
    {
        "updatedTime": "2019-09-16T08:07:50.416274-04:00",
        "createdTime": "2019-09-16T08:07:50.416149-04:00",
        "description": "Tag 2646D9 exited from GeoAlarmOnly!",
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:07:50.413Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    },
    {
        "updatedTime": "2019-09-16T08:06:50.426483-04:00",
        "createdTime": "2019-09-16T08:06:50.426291-04:00",
        "description": "Tag 2646D9 entered in GeoAlarmOnly!",
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:06:50.421Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    },
    {
        "updatedTime": "2019-09-16T08:06:42.916809-04:00",
```

```
        "createdTime": "2019-09-16T08:06:42.916647-04:00",
        "description": "Tag 2646D9 exited from GeoAlarmOnly!",
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:06:42.914Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    }
]
```


JSON Response Values

Using `ra` as the Geo-Fence Events for a Single Asset - Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and event properties.
`ra[INDEX].updatedTime`	String	`2019-09-16T08:07:50.416274-04:00`	The time the asset in event was most recently updated.
`ra[INDEX].createdTime`	String	`2019-09-16T08:07:50.416149-04:00`	The time that the asset in event was created.
`ra[INDEX].description`	String	`Tag 2646D9 exited from GeoAlarmOnly!`	The description of this event.
`ra[INDEX].errorEventType`	String	`I`	The type of this event.
`ra[INDEX].occurenceTime`	String	`2019-09-16T12:07:50.413Z`	The time this event became active.
`ra[INDEX].sourceType`	String	`Aerosol Tents`	The type of asset associated with this event.
`ra[INDEX].sourceName`	String	`Office_Tag_46D9_Battery`	The name of the asset associated with this event.
`ra[INDEX].errorCode`	String	`RTLS.RULE.I.2001`	Trellix internal use only.
`ra[INDEX].sourcePublicId`	String	`Office_1`	The Published ID of this asset.

5.4.2 – Geo-Fence Events for a Single Asset – Display List

Returns a display list of all geo-fence events for a single asset.

HTTP Header Fields

```
GET /v2/rtls/public/events/geofences/assets/<ASSET-ID>/display HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/events/geofences/assets/<ASSET-ID>/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/events/geofences/assets/Office_1/display
```

JSON Body Example


```
[
    {
        "updatedTime": "2019-09-16T08:07:50.416274-04:00",
        "description": "Tag 2646D9 exited from GeoAlarmOnly!",
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:07:50.413Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    },
    {
        "updatedTime": "2019-09-16T08:06:50.426483-04:00",
        "description": "Tag 2646D9 entered in GeoAlarmOnly!",
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:06:50.421Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    },
    {
        "updatedTime": "2019-09-16T08:06:42.916809-04:00",
        "description": "Tag 2646D9 exited from GeoAlarmOnly!",
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:06:42.914Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.RULE.I.2001",
        "sourcePublicId": "Office_1"
    }
]
```


JSON Response Values

Using `ra` as the Geo-Fence Events for a Single Asset - Display List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and event properties.
`ra[INDEX].updatedTime`	String	`2019-09-16T08:07:50.416274-04:00`	The time the asset in event was most recently updated.

Property	Type	Example Value	Description
ra[INDEX].description	String	Tag 2646D9 exited from GeoAlarmOnly!	The description of this event.
ra[INDEX].errorEventType	String	I	The type of this event.
ra[INDEX].occurenceTime	String	2019-09-16T12:07:50.413Z	The time this event became active.
ra[INDEX].sourceType	String	Aerosol Tents	The type of asset associated with this event.
ra[INDEX].sourceName	String	Office_Tag_46D9_Battery	The name of the asset associated with this event.
ra[INDEX].errorCode	String	RTLS.RULE.I.2001	Trellix internal use only.
ra[INDEX].sourcePublicId	String	Office_1	The Published ID of this asset.

5.4.3 – Geo-Fence Events for a Single Asset – Identity List

Returns an identity list of all geo-fence events for a single asset.

HTTP Header Fields

```
GET /v2/rtls/public/events/geofences/assets/<ASSET-ID>/identity HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/events/geofences/assets/<ASSET-ID>/identity
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/events/geofences/assets/Office_1/identity
```

JSON Body Example

```
[
    {
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:07:50.413Z",
        "sourceName": "Office_Tag_46D9_Battery",
        "sourcePublicId": "Office_1"
    },
    {
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:07:50.400Z",
        "sourceName": "Office_Tag_46D6_Battery",
        "sourcePublicId": "Office_2"
    },
    {
```

```
        "errorEventType": "I",
        "occurrenceTime": "2019-09-16T12:07:42.975Z",
        "sourceName": "Office_Tag_46D6_Battery",
        "sourcePublicId": "Office_2"
    }
]
```


JSON Response Values

Using `ra` as the Geo-Fence Events for a Single Asset - Identity List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and event properties.
`ra[INDEX].errorEventType`	String	`I`	The type of this event.
`ra[INDEX].occurenceTime`	String	`2019-09-16T12:07:50.413Z`	The time this event became active.
`ra[INDEX].sourceName`	String	`Office_Tag_46D9_Battery`	The name of the asset associated with this event.
`ra[INDEX].sourcePublicId`	String	`Office_1`	The Published ID of this asset.

6 – Real-time Operating Data Calls

This chapter describes API calls that return real-time operating data, such as real-time asset locations.

NOTE
See Realtime Operating Data Using WebSocket and REST for information on transferring operating data in real-time using WebSocket and REST.

6.1 – Get Real-time Locations for All Assets

6.1.1 – Real-time Location for All Assets – Detail List

Returns a detail list of real-time location for all configured assets.

HTTP Header Fields

```
GET /v2/rtls/public/assets/lastlocation/all/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/lastlocation/all/detail
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/lastlocation/all/detail
```

JSON Body Example

```
[
    {
        "macAddress": "A10DF7",
        "x": 433.45,
        "y": 723.27,
        "z": 0.0,
        "inventoryId": "Office_4",
        "publicEndpointId": "E110",
        "publicFloorId": "F12",
        "processedAt": "2019-09-09T13:34:18.993-0400"
    },
    {
        "macAddress": "2646D9",
        "x": 341.23,
        "y": 713.37,
        "z": 0.0,
        "inventoryId": "Office_1",
        "publicEndpointId": "E98",
        "publicFloorId": "F12",
        "processedAt": "2019-09-16T09:30:57.914-0400"
    },
    {
        "macAddress": "A10E75",
        "x": 644.06,
        "y": 553.87,
        "z": 0.0,
        "inventoryId": "Office_4",
        "publicEndpointId": "E182",
```

```
        "publicFloorId": "F12",
        "processedAt": "2019-09-09T17:39:36.274-0400"
    }
]
```

JSON Response Values

Using `ra` as the Realtime Location for All Assets – Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and location properties.
`ra[INDEX].macAddress`	String	`A10DF7`	The MAC ID of the asset.
`ra[INDEX].x`	Number	`433.45`	The X location of the asset.
`ra[INDEX].y`	Number	`723.27`	The Y location of the asset.
`ra[INDEX].z`	Number	`0.0`	The Z location of the asset (not used).
`ra[INDEX].inventoryId`	String	`Office_4`	The unique ID assigned to this asset.
`ra[INDEX].publicEndpointId`	String	`E110`	The public endpoint ID.
`ra[INDEX].publicFloorId`	String	`F12`	The floor on which this asset was located.
`ra[INDEX].processedAt`	String	`2019-09-09T13:34:18.993-0400`	The time that location data was last received.

6.1.2 – Realtime Location for All Assets – Display List

Returns a display list of real-time location for all configured assets.

HTTP Header Fields

```
GET /v2/rtls/public/assets/lastlocation/all/display HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/lastlocation/all/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/lastlocation/all/display
```

JSON Body Example


```
[
    {
        "macAddress": "A10DF7",
        "x": 433.45,
        "y": 723.27,
        "z": 0.0,
        "inventoryId": "Office_4",
        "publicEndpointId": "E110",
        "publicFloorId": "F12",
        "processedAt": "2019-09-09T13:34:18.993-0400"
    },
    {
        "macAddress": "2646D9",
        "x": 432.43,
        "y": 441.12,
        "z": 0.0,
        "inventoryId": "Office_1",
        "publicEndpointId": "E477",
        "publicFloorId": "F13",
        "processedAt": "2019-09-16T10:08:42.900-0400"
    },
    {
        "macAddress": "A10E75",
        "x": 644.06,
        "y": 553.87,
        "z": 0.0,
        "inventoryId": "Office_4",
        "publicEndpointId": "E182",
        "publicFloorId": "F12",
        "processedAt": "2019-09-09T17:39:36.274-0400"
    }
]
```


JSON Response Values

Using `ra` as the Realtime Location for All Assets – Display List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and location properties.
`ra[INDEX].macAddress`	String	`A10DF7`	The MAC ID of the asset.
`ra[INDEX].x`	Number	`433.45`	The X location of the asset.
`ra[INDEX].y`	Number	`723.27`	The Y location of the asset.
`ra[INDEX].z`	Number	`0.0`	The Z location of the asset (not used).
`ra[INDEX].inventoryId`	String	`Office_4`	The unique ID assigned to this asset.
`ra[INDEX].publicEndpointId`	String	`E110`	TBD.
`ra[INDEX].publicFloorId`	String	`F12`	TBD.
`ra[INDEX].processedAt`	String	`2019-09-09T13:34:18.993-0400`	The time that location data was last received.

6.1.3 – Realtime Location for All Assets – Identity List

Returns an identity list of real-time location for all configured assets.

HTTP Header Fields

```
GET /v2/rtls/public/assets/lastlocation/all/identity HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/lastlocation/all/identity
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/lastlocation/all/identity
```

JSON Body Example

```
[
    {
        "macAddress": "A10DF7",
        "x": 433.45,
        "y": 723.27,
        "z": 0.0,
        "inventoryId": "Office_4",
        "publicEndpointId": "E110",
        "publicFloorId": "F12",
        "processedAt": "2019-09-09T13:34:18.993-0400"
    },
    {
        "macAddress": "2646D9",
        "x": 424.8256,
        "y": 458.21674,
        "z": 0.0,
        "inventoryId": "Office_1",
        "publicEndpointId": "E477",
        "publicFloorId": "F13",
        "processedAt": "2019-09-16T10:12:20.407-0400"
    },
    {
        "macAddress": "A10E75",
        "x": 644.06,
        "y": 553.87,
        "z": 0.0,
        "inventoryId": "Office_4",
        "publicEndpointId": "E182",
        "publicFloorId": "F12",
        "processedAt": "2019-09-09T17:39:36.274-0400"
    }
]
```

JSON Response Values

Using `ra` as the Realtime Location for All Assets – Identity List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and location properties.
`ra[INDEX].macAddress`	String	`A10DF7`	The MAC ID of the asset.
`ra[INDEX].x`	Number	`433.45`	The X location of the asset.
`ra[INDEX].y`	Number	`723.27`	The Y location of the asset.
`ra[INDEX].z`	Number	`0.0`	The Z location of the asset (not used).
`ra[INDEX].inventoryId`	String	`Office_4`	The unique ID assigned to this asset.
`ra[INDEX].publicEndpointId`	String	`E110`	TBD.
`ra[INDEX].publicFloorId`	String	`F12`	TBD.
`ra[INDEX].processedAt`	String	`2019-09-09T13:34:18.993-0400`	The time that location data was last received.

6.2 – Get Realtime Location for a Single Asset

6.2.1 – Realtime Location for a Single Asset – Detail View

Returns a detail view of the real-time location for a specified asset.

HTTP Header Fields

```
GET /v2/rtls/public/assets/<ASSET-ID>/lastlocation/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/<ASSET-ID>/lastlocation/detail
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/Office_2/lastlocation/detail
```

JSON Body Example

```
{
    "macAddress": "2646D6",
    "x": 352.67,
    "y": 462.86,
```

```
    "z": 0.0,
    "inventoryId": "Office_2",
    "publicEndpointId": "E481",
    "publicFloorId": "F13",
    "processedAt": "2019-09-16T10:14:42.901-0400"
}
```

JSON Response Values

Using `ro` as the Realtime Location for a Single Asset – Detail View response object in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ro.macAddress`	String	`2646D6`	The MAC ID of the asset.
`ro.x`	Number	`352.67`	The X location of the asset.
`ro.y`	Number	`462.86`	The Y location of the asset.
`ro.z`	Number	`0.0`	The Z location of the asset (not used).
`ro.inventoryId`	String	`Office_2`	The unique ID assigned to the asset.
`ro.publicEndpointId`	String	`E481`	TBD.
`ro.publicFloorId`	String	`F13`	TBD.
`ro.processedAt`	String	`2019-09-16T10:14:42.901-0400`	The time that location data was last received.

6.2.2 – Realtime Location for a Single Asset – Display View

Returns a display view of the real-time location for a specified asset.

HTTP Header Fields

```
GET /v2/rtls/public/assets/<ASSET-ID>/lastlocation/display HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/<ASSET-ID>/lastlocation/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/Office_2/lastlocation/display
```

JSON Body Example

```
{
    "macAddress": "2646D6",
    "x": 409.61,
    "y": 457.26,
    "z": 0.0,
    "inventoryId": "Office_2",
    "publicEndpointId": "E477",
    "publicFloorId": "F13",
    "processedAt": "2019-09-16T10:24:57.908-0400"
}
```

JSON Response Values

Using `ro` as the Realtime Location for a Single Asset – Display View response object in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ro.macAddress`	String	`2646D6`	The MAC ID of the asset.
`ro.x`	Number	`409.61`	The X location of the asset.
`ro.y`	Number	`457.26`	The Y location of the asset.
`ro.z`	Number	`0.0`	The Z location of the asset (not used).
`ro.inventoryId`	String	`Office_2`	The unique ID assigned to the asset.
`ro.publicEndpointId`	String	`E477`	TBD.
`ro.publicFloorId`	String	`F13`	TBD.
`ro.processedAt`	String	`2019-09-16T10:24:57.908-0400`	The time that location data was last received.

6.2.3 – Realtime Location for a Single Asset – Identity View

Returns an identity view of the real-time location for a specified asset.

HTTP Header Fields

```
GET /v2/rtls/public/assets/<ASSET-ID>/lastlocation/identity HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/<ASSET-ID>/lastlocation/identity
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/Office_2/lastlocation/identity
```

JSON Body Example

```
{
    "macAddress": "2646D6",
    "x": 424.8256,
    "y": 458.21674,
    "z": 0.0,
    "inventoryId": "Office_2",
    "publicEndpointId": "E477",
    "publicFloorId": "F13",
    "processedAt": "2019-09-16T10:28:12.883-0400"
}
```

JSON Response Values

Using `ro` as the Realtime Location for a Single Asset – Identity View response object in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ro.macAddress`	String	`2646D6`	The MAC ID of the asset.
`ro.x`	Number	`424.8256`	The X location of the asset.
`ro.y`	Number	`458.21674`	The Y location of the asset.
`ro.z`	Number	`0.0`	The Z location of the asset (not used).
`ro.inventoryId`	String	`Office_2`	The unique ID assigned to the asset.
`ro.publicEndpointId`	String	`E477`	TBD.
`ro.publicFloorId`	String	`F13`	TBD.
`ro.processedAt`	String	`2019-09-16T10:28:12.883-0400`	The time that location data was last received.

6.3 – Get Realtime Asset Location by Type

6.3.1 – Asset Location by Type – Detail List

Returns a detail list of asset locations that match a specified asset type.

HTTP Header Fields

```
GET /v2/rtls/public/assets/lastlocation/all/detail?assetTypeId=<ASSET-TYPE-ID> HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/lastlocation/all/detail?assetTypeId=<ASSET-TYPE-ID>
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-TYPE-ID>` - Case-sensitive asset type for which location will be listed.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/lastlocation/all/detail?assetTypeId=f254ae04-6853-11e9-a923-1681be663d3e
```

JSON Body Example

```
[
    {
        "macAddress": "A14C13",
        "x": 317.36,
        "y": 441.65,
        "z": 0.0,
        "inventoryId": "Office_6",
        "publicEndpointId": "E481",
        "publicFloorId": "F13",
        "processedAt": "2019-09-16T10:34:20.397-0400"
    },
    {
        "macAddress": "2646D6",
        "x": 406.36,
        "y": 455.28,
        "z": 0.0,
        "inventoryId": "Office_2",
        "publicEndpointId": "E477",
        "publicFloorId": "F13",
        "processedAt": "2019-09-16T10:34:20.390-0400"
    }
]
```


JSON Response Values

Using `ra` as the Asset Locations by Type - Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and location properties.
`ra[INDEX].macAddress`	String	`A14C13`	The MAC ID of the asset.
`ra[INDEX].x`	Number	`317.36`	The X location of the asset.
`ra[INDEX].y`	Number	`441.65`	The Y location of the asset.
`ra[INDEX].z`	Number	`0.0`	The Z location of the asset (not used).
`ra[INDEX].inventoryId`	String	`Office_6`	The unique ID assigned to the asset.

Property	Type	Example Value	Description
ra[INDEX].publicEndpointId	String	E481	TBD.
ra[INDEX].publicFloorId	String	F13	TBD.
ra[INDEX].processedAt	String	2019-09-16T10:34:20.397-0400	The time that location data was last received.

6.3.2 – Asset Location by Type – Display List

Returns a display list of asset locations that match a specified asset type.

HTTP Header Fields

```
GET /v2/rtls/public/assets/lastlocation/all/display?assetTypeId=<ASSET-TYPE-ID> HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/lastlocation/all/display?assetTypeId=<ASSET-TYPE-ID>
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-TYPE-ID>` - Case-sensitive asset type for which location will be listed.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/lastlocation/all/display?assetTypeId=f254ae04-6853-11e9-a923-1681be663d3e
```

JSON Body Example

```
[
    {
        "macAddress": "A14C13",
        "x": 331.1,
        "y": 350.52,
        "z": 0.0,
        "inventoryId": "Office_6",
        "publicEndpointId": "E449",
        "publicFloorId": "F13",
        "processedAt": "2019-09-16T10:43:35.402-0400"
    },
    {
        "macAddress": "2646D6",
        "x": 309.94,
        "y": 681.51,
        "z": 0.0,
        "inventoryId": "Office_2",
        "publicEndpointId": "E92",
        "publicFloorId": "F12",
        "processedAt": "2019-09-16T10:43:35.401-0400"
    }
]
```

JSON Response Values

Using `ra` as the Asset Locations by Type - Display List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and location properties.
`ra[INDEX].macAddress`	String	`A14C13`	The MAC ID of the asset.
`ra[INDEX].x`	Number	`331.1`	The X location of the asset.
`ra[INDEX].y`	Number	`350.52`	The Y location of the asset.
`ra[INDEX].z`	Number	`0.0`	The Z location of the asset (not used).
`ra[INDEX].inventoryId`	String	`Office_6`	The unique ID assigned to the asset.
`ra[INDEX].publicEndpointId`	String	`E449`	TBD.
`ra[INDEX].publicFloorId`	String	`F13`	TBD.
`ra[INDEX].processedAt`	String	`2019-09-16T10:43:35.402-0400`	The time that location data was last received.

6.3.3 – Asset Location by Type – Identity List

Returns an identity list of asset locations that match a specified asset type.

HTTP Header Fields

```
GET /v2/rtls/public/assets/lastlocation/all/identity?assetTypeId=<ASSET-TYPE-ID> HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/lastlocation/all/identity?assetTypeId=<ASSET-TYPE-ID>
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-TYPE-ID>` - Case-sensitive asset type for which location will be listed.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/lastlocation/all/identity?assetTypeId=f254ae04-6853-11e9-a923-1681be663d3e
```

JSON Body Example

```
[
    {
        "macAddress": "A14C13",
        "x": 411.55,
        "y": 714.28,
```

```
        "z": 0.0,
        "inventoryId": "Office_6",
        "publicEndpointId": "E110",
        "publicFloorId": "F12",
        "processedAt": "2019-09-16T10:45:57.907-0400"
    },
    {
        "macAddress": "2646D6",
        "x": 325.49,
        "y": 672.94,
        "z": 0.0,
        "inventoryId": "Office_2",
        "publicEndposintId": "E92",
        "publicFloorId": "F12",
        "processedAt": "2019-09-16T10:45:57.903-0400"
    }
]
```

JSON Response Values

Using `ra` as the Asset Locations by Type - Identity List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and location properties.
`ra[INDEX].macAddress`	String	`A14C13`	The MAC ID of the asset.
`ra[INDEX].x`	Number	`411.55`	The X location of the asset.
`ra[INDEX].y`	Number	`714.28`	The Y location of the asset.
`ra[INDEX].z`	Number	`0.0`	The Z location of the asset (not used).
`ra[INDEX].inventoryId`	String	`Office_6`	The unique ID assigned to the asset.
`ra[INDEX].publicEndpointId`	String	`E110`	TBD.
`ra[INDEX].publicFloorId`	String	`F12`	TBD.
`ra[INDEX].processedAt`	String	`2019-09-16T10:45:57.907-0400`	The time that location data was last received.

6.4 – Get Realtime Asset Location by Department

6.4.1 – Asset Location by Department – Detail List

Returns a detail list of asset locations that match a specified department type.

HTTP Header Fields

```
GET /v2/rtls/public/assets/lastlocation/all/detail?departmentId=<DEPT-TYPE-ID> HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/lastlocation/all/detail?departmentId=<DEPT-TYPE-ID>
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<DEPT-TYPE-ID>` - Case-sensitive department type for which asset locations will be listed.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/lastlocation/all/detail?departmentId=73d5997d-1e70-46f6-9367-4ecba984a35a
```

JSON Body Example

```
[
    {
        "macAddress": "A14C13",
        "x": 317.36,
        "y": 441.65,
        "z": 0.0,
        "inventoryId": "Office_6",
        "publicEndpointId": "E481",
        "publicFloorId": "F13",
        "processedAt": "2019-09-16T10:34:20.397-0400"
    },
    {
        "macAddress": "2646D6",
        "x": 406.36,
        "y": 455.28,
        "z": 0.0,
        "inventoryId": "Office_2",
        "publicEndpointId": "E477",
        "publicFloorId": "F13",
        "processedAt": "2019-09-16T10:34:20.390-0400"
    }
]
```


JSON Response Values

Using `ra` as the Asset Locations by Department - Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and location properties.
`ra[INDEX].macAddress`	String	`A14C13`	The MAC ID of the asset.
`ra[INDEX].x`	Number	`317.36`	The X location of the asset.
`ra[INDEX].y`	Number	`441.65`	The Y location of the asset.
`ra[INDEX].z`	Number	`0.0`	The Z location of the asset (not used).
`ra[INDEX].inventoryId`	String	`Office_6`	The unique ID assigned to the asset.

Property	Type	Example Value	Description
ra[INDEX].publicEndpointId	String	E481	TBD.
ra[INDEX].publicFloorId	String	F13	TBD.
ra[INDEX].processedAt	String	2019-09-16T10:34:20.397-0400	The time that location data was last received.

6.4.2 – Asset Location by Department – Display List

Returns a display list of asset locations that match a specified department type.

HTTP Header Fields

```
GET /v2/rtls/public/assets/lastlocation/all/display?departmentId=<DEPT-TYPE-ID> HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/lastlocation/all/display?departmentId=<DEPT-TYPE-ID>
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<DEPT-TYPE-ID>` - Case-sensitive department type for which asset locations will be listed.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/lastlocation/all/display?departmentId=73d5997d-1e70-46f6-9367-4ecba984a35a
```


JSON Body Example

```
[
    {
        "macAddress": "A14C13",
        "x": 331.1,
        "y": 350.52,
        "z": 0.0,
        "inventoryId": "Office_6",
        "publicEndpointId": "E449",
        "publicFloorId": "F13",
        "processedAt": "2019-09-16T10:43:35.402-0400"
    },
    {
        "macAddress": "2646D6",
        "x": 309.94,
        "y": 681.51,
        "z": 0.0,
        "inventoryId": "Office_2",
        "publicEndpointId": "E92",
        "publicFloorId": "F12",
        "processedAt": "2019-09-16T10:43:35.401-0400"
    }
]
```

JSON Response Values

Using `ra` as the Asset Locations by Department - Display List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and location properties.
`ra[INDEX].macAddress`	String	`A14C13`	The MAC ID of the asset.
`ra[INDEX].x`	Number	`331.1`	The X location of the asset.
`ra[INDEX].y`	Number	`350.52`	The Y location of the asset.
`ra[INDEX].z`	Number	`0.0`	The Z location of the asset (not used).
`ra[INDEX].inventoryId`	String	`Office_6`	The unique ID assigned to the asset.
`ra[INDEX].publicEndpointId`	String	`E449`	TBD.
`ra[INDEX].publicFloorId`	String	`F13`	TBD.
`ra[INDEX].processedAt`	String	`2019-09-16T10:43:35.402-0400`	The time that location data was last received.

6.4.3 – Asset Location by Department – Identity List

Returns an identity list of asset locations that match a specified department.

HTTP Header Fields

```
GET /v2/rtls/public/assets/lastlocation/all/identity?departmentId=<DEPT-TYPE-ID> HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/lastlocation/all/identity?departmentId=<DEPT-TYPE-ID>
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<DEPT-TYPE-ID>` - Case-sensitive department type for which asset locations will be listed.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/lastlocation/all/identity?departmentId=73d5997d-1e70-46f6-9367-4ecba984a35a
```

JSON Body Example

```
[
    {
        "macAddress": "A10DF7",
        "x": 633.69,
```

```
        "y": 550.52,
        "z": 0.0,
        "inventoryId": "East_Wing",
        "publicEndpointId": "E182",
        "publicFloorId": "F12",
        "processedAt": "2019-09-09T14:46:18.988-0400"
    },
    {
        "macAddress": "A1549B",
        "x": 563.44,
        "y": 522.91,
        "z": 0.0,
        "inventoryId": "gfg",
        "publicEndpointId": "E116",
        "publicFloorId": "F12",
        "processedAt": "2019-09-09T13:38:41.479-0400"
    }
]
```


JSON Response Values

Using `ra` as the Asset Locations by Department - Identity List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and location properties.
`ra[INDEX].macAddress`	String	`A10DF7`	The MAC ID of the asset.
`ra[INDEX].x`	Number	`633.69`	The X location of the asset.
`ra[INDEX].y`	Number	`550.52`	The Y location of the asset.
`ra[INDEX].z`	Number	`0.0`	The Z location of the asset (not used).
`ra[INDEX].inventoryId`	String	`East_Wing`	The unique ID assigned to the asset.
`ra[INDEX].publicEndpointId`	String	`E182`	TBD.
`ra[INDEX].publicFloorId`	String	`F12`	TBD.
`ra[INDEX].processedAt`	String	`2019-09-09T14:46:18.988-0400`	The time that location data was last received.

7 – Historical Data Calls

7.1 – Get Location History by Asset ID

7.1.1 – Location History by Asset ID – Detail List

Returns a detail list of location history for a specified asset.

HTTP Header Fields

```
GET /v2/rtls/public/assets/location/history/<ASSET-ID>/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/location/history/<ASSET-ID>/detail
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/location/history/Office_2/detail
```

JSON Body Example


```
[
    {
        "macAddress": "2646D6",
        "x": 569.2315,
        "y": 658.0092,
        "z": 0.0,
        "inventoryId": "Office_2",
        "publicEndpointId": "E80",
        "publicFloorId": "F12",
        "processedAt": "2019-09-16T11:29:40.117-0400"
    },
    {
        "macAddress": "2646D6",
        "x": 569.2315,
        "y": 658.0092,
        "z": 0.0,
        "inventoryId": "Office_2",
        "publicEndpointId": "E80",
        "publicFloorId": "F12",
        "processedAt": "2019-09-16T11:29:32.613-0400"
    },
    {
        "macAddress": "2646D6",
        "x": 569.2315,
        "y": 658.0092,
        "z": 0.0,
        "inventoryId": "Office_2",
        "publicEndpointId": "E80",
        "publicFloorId": "F12",
        "processedAt": "2019-09-16T11:29:25.114-0400"
    }
]
```

JSON Response Values

Using `ra` as the Realtime Location for All Assets – Detail List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and location properties.
`ra[INDEX].macAddress`	String	`2646D6`	The MAC ID of the asset.
`ra[INDEX].x`	Number	`569.2315`	The X location of the asset.
`ra[INDEX].y`	Number	`658.0092`	The Y location of the asset.
`ra[INDEX].z`	Number	`0.0`	The Z location of the asset (not used).
`ra[INDEX].inventoryId`	String	`Office_2`	The unique ID assigned to the asset.
`ra[INDEX].publicEndpointId`	String	`E80`	TBD.
`ra[INDEX].publicFloorId`	String	`F12`	TBD.
`ra[INDEX].processedAt`	String	`2019-09-16T11:29:40.117-0400`	The time that location data was last received.

7.1.2 – Location History by Asset ID – Display List

Returns a display list of location history for a specified asset.

HTTP Header Fields

```
GET /v2/rtls/public/assets/location/history/<ASSET-ID>/display HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/location/history/<ASSET-ID>/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/location/history/Office_1/display
```

JSON Body Example

```
[
    {
        "macAddress": "2646D9",
        "x": 569.2315,
        "y": 658.0092,
        "z": 0.0,
```

```
        "inventoryId": "Office_1",
        "publicEndpointId": "E80",
        "publicFloorId": "F12",
        "processedAt": "2019-09-16T11:28:17.628-0400"
    },
    {
        "macAddress": "2646D9",
        "x": 569.2315,
        "y": 658.0092,
        "z": 0.0,
        "inventoryId": "Office_1",
        "publicEndpointId": "E80",
        "publicFloorId": "F12",
        "processedAt": "2019-09-16T11:26:55.124-0400"
    },
    {
        "macAddress": "2646D9",
        "x": 569.2315,
        "y": 658.0092,
        "z": 0.0,
        "inventoryId": "Office_1",
        "publicEndpointId": "E80",
        "publicFloorId": "F12",
        "processedAt": "2019-09-16T11:21:47.622-0400"
    }
]
```


JSON Response Values

Using `ra` as the Realtime Location for Assets by Asset ID – Display List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and location properties.
`ra[INDEX].macAddress`	String	`2646D9`	The MAC ID of the asset.
`ra[INDEX].x`	Number	`569.2315`	The X location of the asset.
`ra[INDEX].y`	Number	`658.0092`	The Y location of the asset.
`ra[INDEX].z`	Number	`0.0`	The Z location of the asset (not used).
`ra[INDEX].inventoryId`	String	`Office_1`	The unique ID assigned to the asset.
`ra[INDEX].publicEndpointId`	String	`E80`	TBD.
`ra[INDEX].publicFloorId`	String	`F12`	TBD.
`ra[INDEX].processedAt`	String	`2019-09-16T11:28:17.628-0400`	The time that location data was last received.

7.1.3 – Location History by Asset ID – Identity List

Returns an identity list of location history for a specified asset.

HTTP Header Fields

```
GET /v2/rtls/public/assets/location/history/<ASSET-ID>/identity HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/location/history/<ASSET-ID>/identity
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/location/history/Office_1/identity
```

JSON Body Example

```
[
    {
        "macAddress": "2646D9",
        "x": 403.77,
        "y": 719.26,
        "z": 0.0,
        "inventoryId": "Office_1",
        "publicEndpointId": "E110",
        "publicFloorId": "F12",
        "processedAt": "2019-09-11T15:50:11.865-0400"
    },
    {
        "macAddress": "2646D9",
        "x": 410.97,
        "y": 725.4,
        "z": 0.0,
        "inventoryId": "Office_1",
        "publicEndpointId": "E110",
        "publicFloorId": "F12",
        "processedAt": "2019-09-11T15:50:04.359-0400"
    },
    {
        "macAddress": "2646D9",
        "x": 407.44,
        "y": 719.19,
        "z": 0.0,
        "inventoryId": "Office_1",
        "publicEndpointId": "E110",
        "publicFloorId": "F12",
        "processedAt": "2019-09-11T15:49:56.857-0400"
    }
]
```

JSON Response Values

Using `ra` as the Realtime Location for Assets by Asset ID – Identity List response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and location properties.
`ra[INDEX].macAddress`	String	`2646D9`	The MAC ID of the asset.
`ra[INDEX].x`	Number	`403.77`	The X location of the asset.
`ra[INDEX].y`	Number	`719.26`	The Y location of the asset.
`ra[INDEX].z`	Number	`0.0`	The Z location of the asset (not used).
`ra[INDEX].inventoryId`	String	`Office_1`	The unique ID assigned to the asset.
`ra[INDEX].publicEndpointId`	String	`E110`	TBD.
`ra[INDEX].publicFloorId`	String	`F12`	TBD.
`ra[INDEX].processedAt`	String	`2019-09-11T15:50:11.865-0400`	The time that location data was last received.

7.1.4 – Including a Date Range with Location History by Asset ID

A date range can optionally be applied to each of the Location History by Asset ID calls (Detail, Display, Identity). This is done by appending `from` and `to` query strings to the call. The same data structures are returned as for the regular calls, but the results are limited to the specified date range.

Example

```
https://192.168.2.100/v2/rtls/public/assets/location/history/Office_1/display?from=2019-09-09T13:44:10.467%2B0400&to=2019-09-10T13:44:10.467%2B0400
```

Date Range Format

The start and end dates provided must have the following format:

`<YYYY>-<MM>-<DD>T<HH>:<MM>:<SS>:<MS><GMT>`

Where:

- `<YYYY>` - Four-digit year.
- `<MM>` - Two-digit month of the year.
- `<DD>` - Two-digit day of the month.
- `<HH>` - Two-digit hour of the day.
- `<MM>` - Two-digit minute of the hour.
- `<SS>` - Two-digit second of the minute.
- `<MS>` - Three-digit millisecond of the second.
- `<GMT>` - Five-character, URL-encoded GMT offset.

7.2 – Get Button Press History for a Single Asset

7.2.1 – Button Press History for a Single Asset – Detail View

Returns a detail list of button press history for a specified asset.

HTTP Header Fields

```
GET /v2/rtls/public/assets/<ASSET-ID>/buttonPress/detail HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/<ASSET-ID>/buttonPress/detail
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/Office_1/buttonPress/detail
```

JSON Body Example

```
[
    {
        "updatedTime": "2019-09-16T08:22:02.711812-04:00",
        "createdTime": "2019-09-11T10:12:32.186712-04:00",
        "description": "tag Button Press",
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2017-03-01T20:14:34.000Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.DATA.1.2005"
    }
]
```


JSON Response Values

Using `ra` as the Button Press History for a Single Asset – Detail View response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and button press properties.
`ra[INDEX].updatedTime`	String	`2019-09-16T08:22:02.711812-04:00`	The time the requested asset was last updated.
`ra[INDEX].createdTime`	String	`2019-09-11T10:12:32.186712-04:00`	The time the required asset was created.
`ra[INDEX].description`	String	`tag Button Press`	TBD.
`ra[INDEX].status`	String	`ACKNOWLEDGED`	The status of the button press event.

Property	Type	Example Value	Description
`ra[INDEX].occurrenceTime`	String	`2017-03-01T20:14:34.000Z`	The time this event became active.
`ra[INDEX].sourceType`	String	`Aerosol Tents`	The type of the asset associated with this button press.
`ra[INDEX].sourceName`	String	`Office_Tag_46D9_Battery`	The name of the asset associated with this button press.
`ra[INDEX].errorCode`	String	`RTLS.DATA.I.2005`	Internal Trellix use only.

7.2.2 – Button Press History for a Single Asset – Display View

Returns a display list of button press history for a specified asset.

HTTP Header Fields

```
GET /v2/rtls/public/assets/<ASSET-ID>/buttonPress/display HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/<ASSET-ID>/buttonPress/display
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/Office_1/buttonPress/display
```

JSON Body Example

```
[
    {
        "updatedTime": "2019-09-16T08:22:02.711812-04:00",
        "createdTime": "2019-09-11T10:12:32.186712-04:00",
        "description": "tag Button Press",
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2017-03-01T20:14:34.000Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
        "errorCode": "RTLS.DATA.I.2005"
    }
]
```

JSON Response Values

Using `ra` as the Button Press History for a Single Asset – Identity View response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and button press properties.

Property	Type	Example Value	Description
ra[INDEX].updatedTime	String	2019-09-16T08:22:02.711812-04:00	The time the requested asset was last updated.
ra[INDEX].createdTime	String	2019-09-11T10:12:32.186712-04:00	The time the required asset was created.
ra[INDEX].description	String	tag Button Press	TBD.
ra[INDEX].status	String	ACKNOWLEDGED	The status of the button press event.
ra[INDEX].occurrenceTime	String	2017-03-01T20:14:34.000Z	The time this event became active.
ra[INDEX].sourceType	String	Aerosol Tents	The type of the asset associated with this button press.
ra[INDEX].sourceName	String	Office_Tag_46D9_Battery	The name of the asset associated with this button press.
ra[INDEX].errorCode	String	RTLS.DATA.I.2005	Internal Trellix use only.

7.2.3 – Button Press History for a Single Asset – Identity View

Returns an identity list of button press history for a specified asset.

HTTP Header Fields

```
GET /v2/rtls/public/assets/<ASSET-ID>/buttonPress/identity HTTP/1.1
Host: <HOST-IP>:<HOST-PORT>
Authorization: <TOKEN-TYPE> <ACCESS-TOKEN>
Content-Type: application/json
Cache-Control: no-cache
```

GET Request Structure

```
https://<HOST-IP>:<HOST-PORT>/v2/rtls/public/assets/<ASSET-ID>/buttonPress/identity
```

Where:

- `<HOST-IP>` - IP address of the Trellix Locate API server. Default is 192.168.2.100.
- `<HOST-PORT>` - IP port on the Trellix Locate API server. Default is 8081.
- `<TOKEN-TYPE>` - Type of authentication token (always *bearer*).
- `<ACCESS-TOKEN>` - Locate API token returned in a Get Public Login Token request.
- `<ASSET-ID>` - Case-sensitive ID of the asset being requested.

GET Request Example

```
https://192.168.2.100/v2/rtls/public/assets/Office_1/buttonPress/identity
```

JSON Body Example

```
[
    {
        "updatedTime": "2019-09-16T08:22:02.711812-04:00",
        "createdTime": "2019-09-11T10:12:32.186712-04:00",
        "description": "tag Button Press",
        "status": "ACKNOWLEDGED",
        "occurrenceTime": "2017-03-01T20:14:34.000Z",
        "sourceType": "Aerosol Tents",
        "sourceName": "Office_Tag_46D9_Battery",
```

```
        "errorCode": "RTLS.DATA.I.2005"
    }
]
```

JSON Response Values

Using `ra` as the Button Press History for a Single Asset – Identity View response array in the example above, the relevant values are described below.

Property	Type	Example Value	Description
`ra[INDEX]`	Object	`N/A`	An object that contains the asset and button press properties.
`ra[INDEX].updatedTime`	String	`2019-09-16T08:22:02.711812-04:00`	The time the requested asset was last updated.
`ra[INDEX].createdTime`	String	`2019-09-11T10:12:32.186712-04:00`	The time the required asset was created.
`ra[INDEX].description`	String	`tag Button Press`	TBD.
`ra[INDEX].status`	String	`ACKNOWLEDGED`	The status of the button press event.
`ra[INDEX].occurrenceTime`	String	`2017-03-01T20:14:34.000Z`	The time this event became active.
`ra[INDEX].sourceType`	String	`Aerosol Tents`	The type of the asset associated with this button press.
`ra[INDEX].sourceName`	String	`Office_Tag_46D9_Battery`	The name of the asset associated with this button press.
`ra[INDEX].errorCode`	String	`RTLS.DATA.I.2005`	Internal Trellix use only.

8 – Realtime Operating Data Using TCP Socket and REST

8.1 – Introduction

In addition to data requests from a third-party computer to the Trellix Locate REST API, there are two other methods for a third party to receive Locate data, as follows:

- **TCP Socket** – A third party can open a TCP port on their server and configure Trellix Locate to send real-time operating data to that port in JSON-RPC format
- **REST Endpoint** – A third party can set up a REST endpoint URI and configure Trellix Locate to post real-time operating data to that URI in JSON-RPC format

NOTE
Please refer to "Published API for Locate Data" in the Trellix Lighting System Configuration Guide for details on configuring Trellix Locate to support these methods.

8.2 – About JSON-RPC

JSON-RPC is a remote procedure call protocol encoded in JSON. It is a simple protocol that defines only a few data types and commands. JSON-RPC supports notifications, meaning data can be sent to the server with requiring a response. You can learn more about JSON RPC with the following references:

- *Overview* (Wikipedia)
- *JSON-RPC Specification*

8.3 – Receiving Data with a TCP Socket

You can create a client application that opens a TCP Socket connection to the Trellix Locate server, which will begin sending location data for all Locate assets to your application.

8.3.1 – About TCP Sockets

TCP Socket communication enables interaction real-time data transfer from a server to a client. It does this by

- Standardizing how the server can send content to the client without being first requested by the client
- Allowing messages to be passed back and forth while keeping the connection open

8.3.2 – Trellix Locate TCP Socket Process Overview

The table below provide an overview of obtaining data from the Locate WebSocket API.

Phase	Description
1	The Trellix Locate API is enabled.
2	The Server Configuration (IP address, Port) for Trellix Locate is determined. If secure communication (TLS/SSL) between the client and Trellix server is required, the certificate (*.crt) file provided with Trellix is downloaded.
3	The Locate TCP Client is registered in Trellix Locate by providing its IP address, Port, and optionally attaching the server certificate.
4	A TCP Socket client application is developed and installed at the IP address specified in Phase 3.
5	The TCP Socket application is enabled and makes a call to the Trellix Locate server.
6	For each Asset Alarm or Location change, the Trellix Locate server sends one JSON-RPC notification to the TCP Socket client application.

JSON-RPC TCP Socket Body Example – Location


```
{
  "jsonrpc": "2.0",
  "method": "assetLocation_status",
  "params": {
    "data": {
      "assetId": "32df3d2a-520f-4895-856a-7f11c8b69baa",
      "assetInventoryId": "Battery_9",
      "geofenceStatus": [
        {
          "id": "0bbafbdd-c664-41bb-ace4-799a71d75fa9",
          "inside": true,
          "hysteresis": false,
          "transitioned": true,
          "status": "ENTRY",
          "algorithm": "winding_number",
          "calculatedTime": "2019-10-18T13:25:58.665698-04:00"
        },
        {
          "id": "fc934e67-34b1-44ad-99e9-2e66988726b9",
          "inside": true,
          "hysteresis": false,
          "transitioned": true,
          "status": "ENTRY",
          "algorithm": "winding_number",
          "calculatedTime": "2019-10-18T13:25:58.665778-04:00"
        }
      ],
      "locationStatus": {
        "floorId": "9a5e004b-932c-4fa7-91e0-e485fb86fe8c",
        "location": {
          "x": 392.29,
          "y": 595.38,
          "z": 0
        },
        "calculatedTime": "2019-10-18T13:25:58.662267-04:00"
      },
      "macAddress": "270D08"
    }
  }
}
```


JSON-RPC TCP Socket Body Example – Alarm


```
{
  "jsonrpc": "2.0",
  "method": "alarm_status",
  "params": {
    "data": {
      "updatedTime": "2019-09-10T13:01:28.800137-04:00",
      "createdTime": "2019-09-10T13:01:28.799865-04:00",
      "description": "Tag 2646D9 exited from GeoAlarmOnly!",
      "status": "ACTIVE",
      "occurrenceTime": "2019-09-10T17:01:28.796Z",
      "sourceType": "Aerosol Tents",
      "sourceName": "Office_Tag_46D9_Battery",
      "errorCode": "RTLS.RULE.I.2001",
      "sourcePublicId": "Office_1"
    }
  }
}
```

8.4 – Receiving Data at a REST Endpoint

You can create a client application that will receive REST (REpresentational State Transfer) posts containing Asset location and alarm data.

8.4.1 – About RESTful Web Services

REST specifies a set of six constraints that can be used to create Web services. Web services that conform to REST, called RESTful Web services, enable computer systems to interoperate over the Internet.

You can learn more about using the RESTful Web services with the following references:

- *Overview (Wikipedia)*
- *REST API Tutorial*

8.4.2 – REST Process Overview

The table below provide an overview of obtaining real-time data at a client REST endpoint.

Phase	Description
1	The Trellix Locate API is enabled.
2	The Server Configuration (IP address, Port) for Trellix Locate is determined. If secure communication (TLS/SSL) between your client and the Trellix server is required, the certificate (*.crt) file provided with Trellix is downloaded.
3	A REST client is registered in Trellix Locate by providing the Post URL, and optionally specifying a separate relative path for Alarms and for Asset Location.
4	A REST client application is developed and made available at the URL, and optionally paths, specified in Phase 3.
5	The REST client application is enabled to receive POST messages from the Trellix Locate server.
6	For each Asset Alarm or Location change, the Trellix Locate server sends one JSON-RPC POST message to the REST client application.

JSON-RPC REST Body Example – Alarm

```
{
  "jsonrpc": "2.0",
  "method": "alarm_status",
  "params": {
    "data": {
      "updatedTime": "2019-09-10T13:01:28.800137-04:00",
      "createdTime": "2019-09-10T13:01:28.799865-04:00",
      "description": "Tag 2646D9 exited from GeoAlarmOnly!",
      "status": "ACTIVE",
      "occurrenceTime": "2019-09-10T17:01:28.796Z",
      "sourceType": "Aerosol Tents",
      "sourceName": "Office_Tag_46D9_Battery",
      "errorCode": "RTLS.RULE.I.2001",
      "sourcePublicId": "Office_1"
    }
  }
}
```

JSON-RPC REST Body Example - Location

```
{
  "jsonrpc": "2.0",
  "method": "assetLocation_status",
  "params": {
    "data": {
      "assetId": "32df3d2a-520f-4895-856a-7f11c8b69baa",
      "assetInventoryId": "Battery_9",
      "geofenceStatus": [
        {
          "id": "0bbafbdd-c664-41bb-ace4-799a71d75fa9",
          "inside": true,
          "hysteresis": false,
          "transitioned": true,
          "status": "ENTRY",
```

```
          "algorithm": "winding_number",
          "calculatedTime": "2019-10-18T13:25:58.665698-04:00"
        },
        {
          "id": "fc934e67-34b1-44ad-99e9-2e66988726b9",
          "inside": true,
          "hysteresis": false,
          "transitioned": true,
          "status": "ENTRY",
          "algorithm": "winding_number",
          "calculatedTime": "2019-10-18T13:25:58.665778-04:00"
        }
      ],
      "locationStatus": {
        "floorId": "9a5e004b-932c-4fa7-91e0-e485fb86fe8c",
        "location": {
          "x": 392.29,
          "y": 595.38,
          "z": 0
        },
        "calculatedTime": "2019-10-18T13:25:58.662267-04:00"
      },
      "macAddress": "270D08"
    }
  }
}
```


JSON-RPC Body Example - Alarm


```
{
      "assetId": "32df3d2a-520f-4895-856a-7f11c8b69baa",
      "assetInventoryId": "Battery_9",
      "geofenceStatus": [
        {
          "id": "0bbafbdd-c664-41bb-ace4-799a71d75fa9",
          "inside": true,
          "hysteresis": false,
          "transitioned": true,
          "status": "ENTRY",
          "algorithm": "winding_number",
          "calculatedTime": "2019-10-18T13:25:58.665698-04:00"
        },
        {
          "id": "fc934e67-34b1-44ad-99e9-2e66988726b9",
          "inside": true,
          "hysteresis": false,
          "transitioned": true,
          "status": "ENTRY",
          "algorithm": "winding_number",
          "calculatedTime": "2019-10-18T13:25:58.665778-04:00"
        }
      ],
      "locationStatus": {
        "floorId": "9a5e004b-932c-4fa7-91e0-e485fb86fe8c",
        "location": {
          "x": 392.29,
          "y": 595.38,
          "z": 0
        },
        "calculatedTime": "2019-10-18T13:25:58.662267-04:00"
      },
      "macAddress": "270D08"
}
```

9 – Error Messages

This chapter describes error messages that may be encountered.

9.1 – 404 Error Message

An error message such as the one below is returned when an invalid path is provided in a request.

```
{
    "timestamp": "2019-09-15T17:38:37.054+0000",
    "status": 404,
    "error": "Not Found",
    "message": "No message available",
    "path": "/v2/rtls/public/no-such-address/a612eb71-f527-4b4d-a44a-ad4190df05a9/display"
}
```

9.2 – Timeout Message

An error such as the one below occurs when the response time exceeds that allowed by your calling program.

```
{"errorCode":"RTLS.DATA.E.0840","description":"Read timed out executing GET
https://localhost:8081/v2/eventSummary/display?sourceId=fbfa42c8-265b-475e-ae52-
afa17c133f25&errorCode=RTLS.RULE.I.2001&origin=ASSET&isInternalView=false"}
```

9.3 – Invalid Token (Not Authenticated) Message

An error such as the one below occurs when your calling program has not been authenticated.

```
{
    "error": "invalid_token",
    "error_description": "9bd1d724-3276-473c-a2c3-737fd350a180"
}
```

9.4 – Invalid Parameter

An error message such as the one below occurs when your calling program supplied an invalid value.

```
{"errorCode":"RTLS.DATA.E.0315","description":"Invalid inventoryId parameter."}
```

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

Note: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

Note: The equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons.

Warranties and Limitation of Liability

Please refer to www.cooperlighting.com/WarrantyTerms for our terms and conditions.

Garanties et limitation de responsabilité

Veuillez consulter le site www.cooperlighting.com/WarrantyTerms pour obtenir les conditions générales.

Garantías y Limitación de Responsabilidad

Visite www.cooperlighting.com/WarrantyTerms para conocer nuestros términos y condiciones.

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