

## 1. INTRODUCTION

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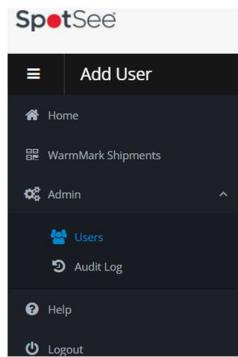
The SpotSee QR API is a system designed to allow our clients to integrate their platform with our systems using a JSON based API to manage a variety of services.

## 2. Allowing API Access

Log into your QR.SpotSee.io cloud account.

Hover over the Navigation Panel on the left side of the screen to access the **Admin** tab.

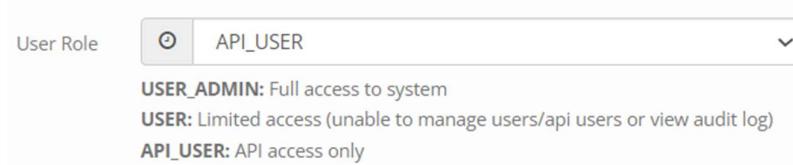
Select **Users**.



Select **Add User** in the top right corner of the Users page.



Complete the form fill and select **API\_USER** as the User Role at the end.



This allows API access to your account. The log in credentials will provide Cloud access but do not display data such as that of a **USER\_ADMIN** or **USER** since the primary function of this process is to allow API access.



## 3. INVOKING OPERATIONS

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Client initiated operations are invoked by making HTTP POST requests to the API Endpoint below:

**Endpoint:**

**<https://qr.spotsee.io/api733/{resource-path}>**

The body of the request should contain JSON data as described in this document, the response will contain a Json response containing the result(s) or error(s) detailing any problems with the data submitted or if any issues were encountered processing the request.

Items highlighted in Orange are optional.

If any requests fail validation error messages will be returned containing information relating to the issue.

### EXAMPLE ERROR

```
{  
  "error":{  
    "shipmentid": "Invalid shipmentid"  
  }  
}
```

## 4. AUTHENTICATION

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Each request must be sent with the following header name/value pairs:

**content-type:** application/json

**app-ref:** API\_USER Username.

**app-token:** API\_USER Password.



## 5. QR Bags

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### 5.1: List Bags

URI

<https://qr.spotsee.io/api733/qrbag>

METHOD

GET

#### DESCRIPTION

This will return a list of all QR Bags.

#### EXAMPLE RESPONSE

```
{
  "response": [
    {
      "bagId": "2222222Brd9V38X",
      "sku": "",
      "sensors": 10
    },
    {
      "bagId": "22222224d98826",
      "sku": "",
      "sensors": 800
    }
  ]
}
```



## 5.2: Allocate Bag

### URI

<https://qr.spotsee.io/api733/qrbag/{BagID}/allocate>

### METHOD

GET

### DESCRIPTION

This will return the outcome for allocating a QR Bag, or any related errors.

### EXAMPLE RESPONSE

```
{  
  "response":{  
    "id": "{bagId}",  
    "allocator": true  
  }  
}
```

## 6. QR Sensors

### 6.1: List Sensors

URI

<https://qr.spotsee.io/api733/qrsensors>

METHOD

POST

#### DESCRIPTION

This will return a list of all sensors that match the criteria specified, start and end dates are only applicable for searched containing scans (EXCURSIONS, NO EXCURSIONS).

Field	Description	Data Type (Regex)	Length	Required
bagId	Bag ID	String	14	False
sku	SKU	String	12	
status	UNSCANNED, EXCURSIONS, NO EXCURSIONS	String		False
start	UTC start time (yyyy-MM-dd HH:mm:ss)	Date	10	False
end	UTC end time (yyyy-MM-dd HH:mm:ss)	Date	10	False

#### EXAMPLE BODY

```
{
  "bagId": "[bagId]",
  "status": "[status]",
  "start": "2024-01-01 00:00:00",
  "end": "2024-12-01 13:00:00"
}
```

#### EXAMPLE RESPONSE

```
{
  "response": [
    {
      "bagId": "222222Btd9V38X",
      "sensorId": "22223WSNHW5749",
      "sku": "WM 30/86",
      "shipmentId": "test9000",
      "excursion": true,
      "image": "https://qr.spotsee.io/scans/q/0e3a0b199-55ec-4b84-9ec3-b177f48cfb4.png",
      "authorised": true,
      "latitude": 51.239100,
      "longitude": -0.860600,
      "locationUrl": "https://www.google.com/maps/place/51.239100,-0.860600",
      "timestamp": "2024-08-10 13:10:37",
      "localTimestamp": "2024-08-10 14:11:43",
      "timeZone": "Europe/London",
      "locale": "en-GB"
    },
    {
      "bagId": "222222Btd9V38X",
      "sensorId": "22223WSNHW5746",
      "sku": "WM 30/86",
      "shipmentId": "adasd",
      "excursion": false,
      "image": "",
      "authorised": false,
      "latitude": 0.0,
      "longitude": 0.0,
      "locationUrl": "",
      "timestamp": "",
      "localTimestamp": "",
      "timeZone": "",
      "locale": ""
    }
  ]
}
```



## 6.2: Shipment ID

### URI

<https://qr.spotsee.io/api733/qrsensors/{SensorID}/shipmentid>

### METHOD

POST

### DESCRIPTION

This will either create, modify or clear a Shipment ID for the specified QR Sensor

Field	Description	Data Type (Regex)	Length	Required
shipmentid	Create/Modify/Clear Shipment ID	String	20	False

### EXAMPLE BODY

```
{  
  "shipmentid": "1234 2"  
}
```

### EXAMPLE RESPONSE

```
{  
  "response": {  
    "sensorid": "22223WSNGW6749",  
    "shipmentid": "",  
    "updated": true  
  }  
}
```



## 6.3: Scan History

### URI

<https://qr.spotsee.io/api733/qrsensors/{SensorID}/history>

### METHOD

GET

### DESCRIPTION

This will return a scan history of the specified QR Sensor.

### EXAMPLE RESPONSE

```
{
  "response": [
    {
      "excursion": true,
      "image": "e1a0a199-55ec-4b84-9ec3-b177f48cffb4.png",
      "authorised": true,
      "latitude": 51.239100,
      "longitude": -0.860600,
      "locationUrl": "https://www.google.com/maps/place/51.239100,-0.860600",
      "timestamp": "2024-08-10 10:37:37",
      "localTimestamp": "2024-08-10 14:11:43",
      "timeZone": "Europe/London",
      "locale": "en-GB"
    },
    {
      "excursion": false,
      "image": "b0711003-6228-49d4-ad97-ef16ae7b7981.png",
      "authorised": true,
      "latitude": 51.507300,
      "longitude": -0.127700,
      "locationUrl": "https://www.google.com/maps/place/51.507300,-0.127700",
      "timestamp": "2024-08-10 13:03:37",
      "localTimestamp": "2024-08-10 14:04:43",
      "timeZone": "Europe/London",
      "locale": "en-GB"
    },
    {
      "excursion": false,
      "image": "2c0fb1c0-0e40-41b1-9b34-71c0d0aef36d.png",
      "authorised": false,
      "latitude": 0.0,
      "longitude": 0.0,
      "locationUrl": "",
      "timestamp": "2024-08-10 12:52:28",
      "localTimestamp": "",
      "timeZone": "",
      "locale": ""
    }
  ]
}
```