

Instruction Sheet

How to Connect a Micromate to the New York City Department of Environmental Protection (NYC-DEP) for Sound Monitoring

Background

New York City has amended the Citywide Construction Noise Mitigation Rules (Chapter 28 of Title 15 RCNY) requiring noise monitoring devices at certain construction projects that perform after-hours work. The requirement came into effect on April 21, 2026 and applies to projects that generally meet all of the following criteria:

- Project requires an Alternative Noise Mitigation Plan (ANMP) for after-hours work.
- Project has ongoing after-hours construction for 30 days or longer.
- Project has a gross floor area of 200,000 square feet or more.
- Project is located within 50 feet of a residential receptor.

For such projects, 24/7 sound data must be transmitted to the Department of Environmental Protection (DEP) through their Application Programming Interface (API).

For full details please consult the final adopted rule text that can be found [here](#).

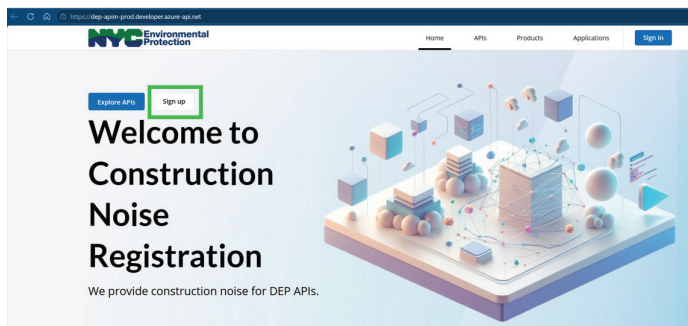
Vision // Configuration

The Instantel Micromate systems are certified to transmit data to the NYC-DEP-API. This instruction sheet describes the setup procedure for recording and transmitting data to the NYC-DEP.

Steps:

1. Register with the DEP and apply for a unique subscription key
2. Enter the subscription key into Vision // and enable permissions
3. Ensure a proper unit setup file
4. Micromate
 - 4.1 GPS Settings for the Micromate Coordinate System
 - 4.2 Ensure a proper schedule for the Micromate

1. Register with the DEP and apply for a unique subscription key



Go to the DEP website:

<https://dep-apim-prod.developer.azure-api.net/>

1. Create an account.

Note: the NYC DEP website design and hyperlinks are subject to change. This document references the site for your convenience. Appearance and links may change without notice.

Sign up

Already a member? [Sign in.](#)

Email address *

Enter email address

Password *

Enter password

Confirm password *

Enter confirm password

First name *

Enter first name

Last name *

Enter last name

Captcha *

☒ Visual ☐ Audio

Generate new captcha

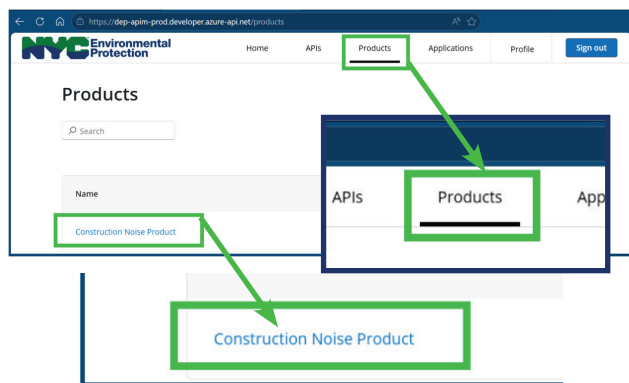
Enter captcha *

Enter captcha

[Sign up](#)

2. Validate your email address and click on the link that is provided by apimgmt-noreply@mail.windowsazure.com. If you do not receive an email, please check your email host's security settings and spam folder.

The link will authenticate your registration and automatically redirect you to the DEP website. Sign in using the same credentials as you just created.



3. Select the **Products** tab and then click the **Construction Noise Product**.

4. Enter a product subscription name and select the **Subscribe** button.

Note: We recommend using a name that is easily distinguishable from other projects to help you track your keys. This name is not used as part of the data packets sent to the DEP, it is purely for your convenience and can be changed at any time. For a detailed description of the transmitted payload please refer to the appendix.

Once submitted, the NYC-DEP will review the request.

Note: This is a manual process, expect up to 24 hours for review and approval.

[Home](#)
[APIs](#)
[Products](#)
[Applications](#)
[Profile](#)
[Sign out](#)

User profile

Account details

Email	First name	Last name	Date created
test@instantel....	Johan	Johanson	06/12/2026

Subscriptions

Name	Product	State	Primary key	Secondary key	Date created
Subway on Fifth	Construction Noise Product	Submitted	The subscription is not active	The subscription is not active	
Museum Demolition	Construction Noise Product	Active	XXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXX	06/12/2026

abcdef0123456789abcdef0123456789

Pending requests will appear in the Subscriptions' list as "Submitted". The primary and secondary keys will not yet have assigned values and read "The subscription is not active".

Approved requests will appear as "Active" along with a band of X's indicating the subscription key value is hidden.

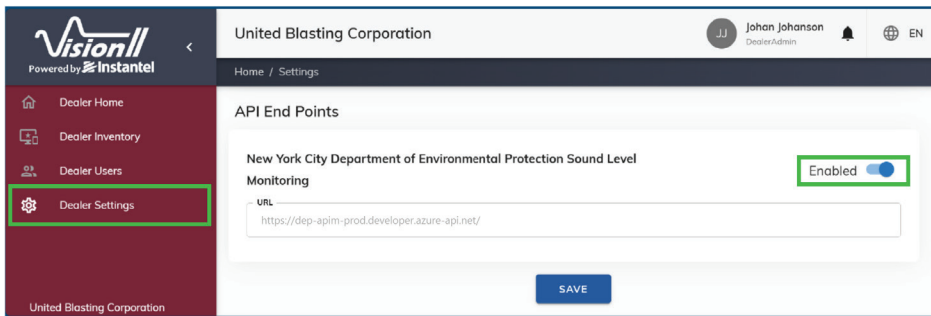
Hover over the hidden key and click on the icon that resembles an eye to reveal the subscription key (in the fabricated example above "abcdef0123456789abcdef0123456789" is used).

Copy this subscription key (double click) and paste it into the Vision II interface to link your company/project (see section 2).

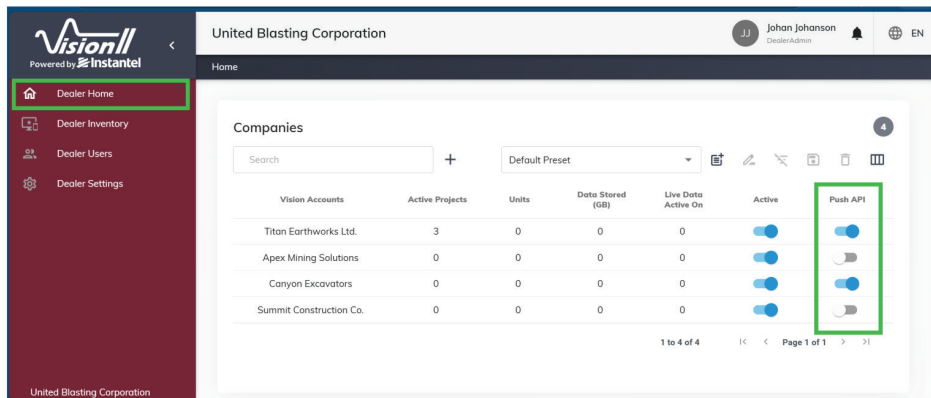
Your subscription has a *primary key* and a *secondary key*. Both grant identical access. The secondary key exists for zero-downtime key rotation.

2. Enter the Subscription Key into Vision II and Enable Permissions

Note: This section applies only to Vision II dealers, if you are managing a Vision II account at the company admin level, please advance to the Company Settings section.



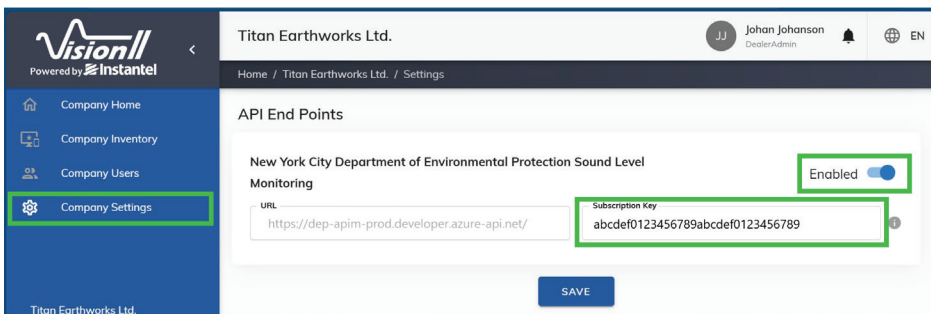
Dealers must log in to their Vision II account and go to the Dealer Settings section to enable the API End Points feature.



With the dealer wide permissions enabled, select the companies that will receive access to send their data to the API by enabling the **Push API** slider.

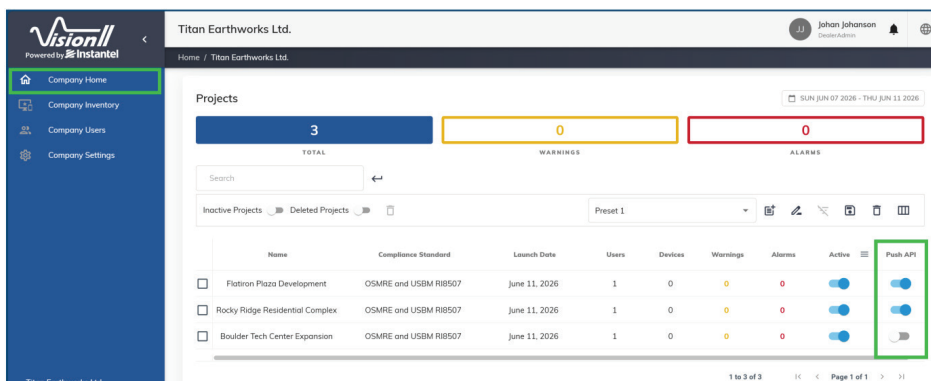
Select a company and go to the **Company Settings** page.

Note: This section applies only to Vision II companies, if you are managing a Vision II account at the project admin level, please advance to the Project Settings section on page 5.



From the Company Settings page, toggle the API slider such that it appears blue and enter your subscription key that you received in step 1. Click **Save**.

Note: If this section appears greyed out please contact your dealer to have it enabled.



All company projects will have the option to enter their own key or use this subscription key by default.

If you choose to leave the company level subscription key blank, all projects will be required to enter their own subscription key.

Go to the **Company Home** page to display your projects and enable **Push API** for the desired projects. Select a project and go to the **Project Settings** page.

Project Settings

From the Project Settings page, toggle the API slider such that it appears blue and enter your subscription key that you received in step 1.

Note: If this section appears greyed out please contact your Company Admin to have it enabled.

If you require a separate subscription key per project, you can override the company subscription key value by entering a new subscription key in the **Project Settings** and select **Save**.

The screenshot shows the VisionII Project Settings interface. The left sidebar has a green box around the 'Project Settings' option. The main content area is titled 'API End Points' and shows a toggle for 'New York City Department of Environmental Protection Sound Level Monitoring' set to 'Enabled'. Below this is a 'Subscription Key' field with the value 'Same as Company'. The URL field contains 'https://bec-apim-dev.azure-api.net/constructionnoise-dev'. A 'SAVE' button is at the bottom.

If no subscription key is entered, the project will use the same key as was defined in the Company.

3. Ensure a Proper Unit Setup File

Return to the **Project Home** page and select a device from the list of deployed devices. If the list is empty, first ensure that there is at least one device assigned to the project and that it has been deployed on the project. Select the **Setup Files** button.

The top screenshot shows the VisionII InstanTel web interface for 'Titan Earthworks Ltd.' The sidebar menu on the left has 'Project Home' highlighted. The main content area displays a 'Devices' summary with four colored boxes: 1 (Total), 0 (Monitoring), 1 (Connected Not Monitoring), and 0 (Offline). Below this is a table of devices with columns: Status, Serial Number, Firmware Version, Deployment, Live Data, Alarms, Warnings, Modem Signal, Battery, and Storage. The first row, 'WU10032', is highlighted in green. The bottom screenshot shows the 'Device' page for 'WU10032'. The top right corner has buttons for 'Start Live Data', 'Start Monitoring', 'Sensor Check', and 'Setup Files' (highlighted in green). The page also features a satellite map, a 'Device Status' section with various indicators (Inactive, Storage: 0.00/31 GB, Battery: 67%, Signal: Excellent, Connected), and a 'Schedule' section.

To comply with the NYC-DEP-API requirements, the Sound Level Microphone must record using the following parameters:

- 5-minute (300 seconds) Histogram intervals
- A-weighting
- Response Time: Slow
- Latitude and Longitude coordinates

You may monitor using other connected sensors without impacting the data being transmitted to the DEP. For the Micromate, this applies to the triaxial geophone. You may also monitor using Histogram-Combo mode. Parameters such as sample rate or pre-trigger do not impact the required data for the API.

Restrictions:

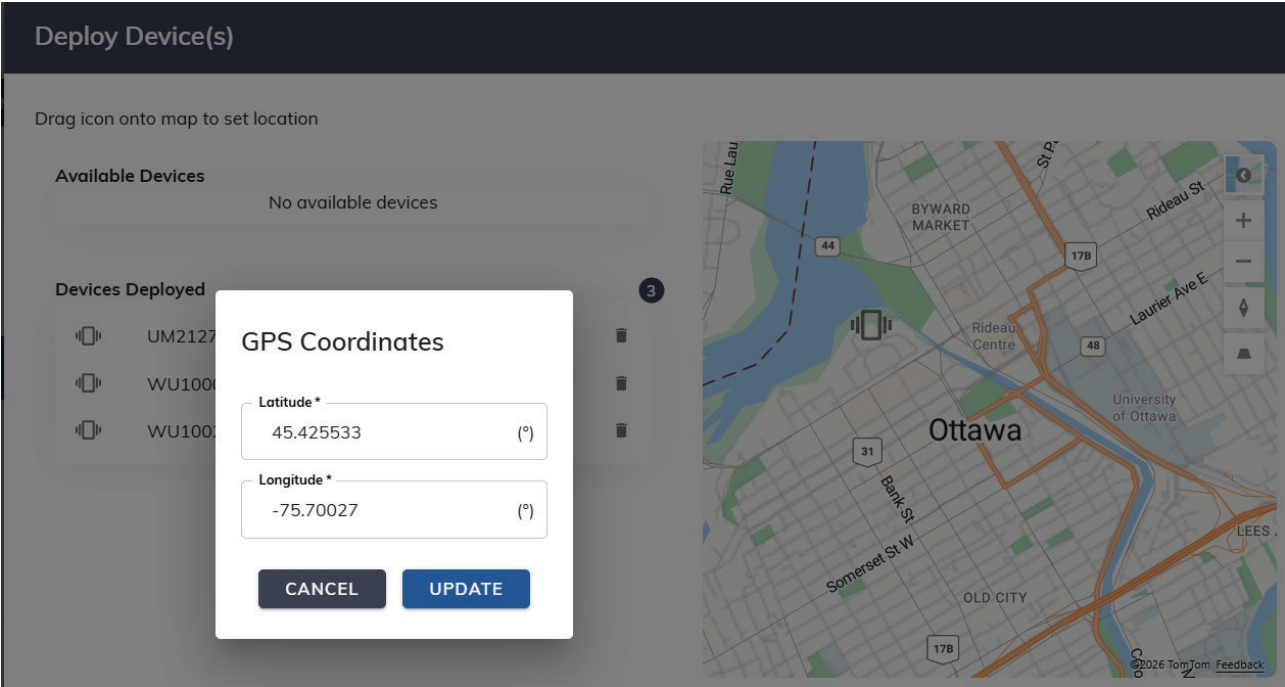
When the DEP-API is enabled, all units monitoring in Histogram or Histogram-Combo mode with a Sound Level Microphone (SLM) will send their data the DEP. If you have extra SLM devices that you do not wish to have their data uploaded to the DEP site, you must place them on a separate project with the API disabled.

When operating with a triaxial geophone, uni-axis mode is not supported.

4. Micromate Monitoring Unit

4.1 Micromate Device Coordinates

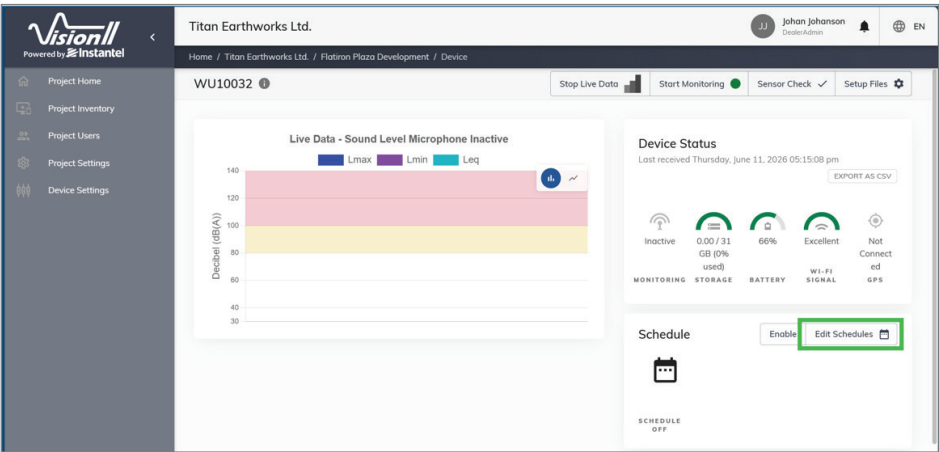
The Micromate is not equipped with a GPS and will use the deployed coordinates. The coordinates can be accessed and updated at any time by clicking on the device icon on the map and entering new values.



4.2 Ensure a Proper Schedule for the Micromate

The NYC-DEP-API requires constant 24/7 sound monitoring. To achieve this, you must create a schedule that references the setup file created in step 3. The schedule must transmit all data every hour.

Note: All sensors connected to a single monitoring unit are tied to the same schedule. If the DEP restrictions do not conform to your monitoring needs, please consider using a separate unit to match your desired schedule.



From the **Device** page, click on **Edit Schedule**.

Schedules

NYC DEP API Receive From Device + ✎ ✖

Name: NYC DEP API

Repeat Daily: ☒

Current Schedule: ☒

DAY **WEEK**

Start Time: 12:00 AM **End Time:** 11:30 PM

Time	Daily Actions
12:00 AM	
12:30 AM	
01:00 AM	
01:30 AM	
02:00 AM	
02:30 AM	
03:00 AM	

Click on the + icon to create a new schedule, or the pencil to edit an existing schedule

- Name your schedule
- Select Repeat Daily
- Select Current Schedule
- Set the Start Time to 12:00 AM
- Set the End Time to 11:30 PM

Schedules

NYC DEP API Receive From Device + ✎ ✖

Name: NYC DEP API

Repeat Daily: ☒

Current Schedule: ☒

Add/Edit Action

Action: Start Monitor **Unit Setup:** NYC DEP API

CANCEL **OK**

Time	Daily Actions
01:30 AM	
02:00 AM	
02:30 AM	
03:00 AM	

Hover over a time entry until it turns blue then select the entry. Use the action **Start Monitor** and select the **Unit Setup** that you created in step 3 (in the example: NYC DEP API). Click **OK**.

Select the next hourly time slot and repeat for all time slots that land on the hour.

Note: The Micromate uses 30-minute increment resolution for schedule entries. You will only need to enter the Start Monitor command for every second entry, coinciding with every hour.

Schedule

Enable **Edit Schedules** 📅

SCHEDULE OFF

On the **Device** page, enable the schedule.

Titan Earthworks Ltd.

Home / Titan Earthworks Ltd. / Flotation Plaza Development

UM21273 Stop Live Data Start Schedule Setup Files

Live Data - Geophone Inactive

Velocity (mm/s)

Live Data - Sound Level Microphone Inactive

Device Status

Last received Friday, June 12, 2026 05:03:16 pm

Schedule

SCHEDULE	CURRENT SCHEDULE	CURRENT STATE	NEXT STATE
NYC DEP API	05:00 PM	Start Monitor (NYC DEP API)	06:00 PM

Once the schedule is enabled, select **Start Schedule**.

It is a good idea to wait for the response from the device confirming it received the command and has begun monitoring.

Your device is now monitoring ✖

The full Micromate schedule should look like the following:

Schedules

NYC DEP API

Receive From Device

Name: NYC DEP API
Repeat Daily: Enabled
Current Schedule: Yes

Time	Daily Actions
12:00 AM	Start Monitor (NYC DEP API)
01:00 AM	Start Monitor (NYC DEP API)
02:00 AM	Start Monitor (NYC DEP API)
03:00 AM	Start Monitor (NYC DEP API)
04:00 AM	Start Monitor (NYC DEP API)
05:00 AM	Start Monitor (NYC DEP API)
06:00 AM	Start Monitor (NYC DEP API)
07:00 AM	Start Monitor (NYC DEP API)
08:00 AM	Start Monitor (NYC DEP API)
09:00 AM	Start Monitor (NYC DEP API)
10:00 AM	Start Monitor (NYC DEP API)
11:00 AM	Start Monitor (NYC DEP API)
12:00 PM	Start Monitor (NYC DEP API)
01:00 PM	Start Monitor (NYC DEP API)
02:00 PM	Start Monitor (NYC DEP API)
03:00 PM	Start Monitor (NYC DEP API)
04:00 PM	Start Monitor (NYC DEP API)
05:00 PM	Start Monitor (NYC DEP API)
06:00 PM	Start Monitor (NYC DEP API)
07:00 PM	Start Monitor (NYC DEP API)
08:00 PM	Start Monitor (NYC DEP API)
09:00 PM	Start Monitor (NYC DEP API)
10:00 PM	Start Monitor (NYC DEP API)
11:00 PM	Start Monitor (NYC DEP API)

Note: If the battery reaches its critical low limit, unexpected results may occur.

Appendix

The following fields are used to send the device registration to the DEP:

Device Serial No

UM123456 (Micromate devices)

Device Deployment Address

The project address

Device Location Name

The project nickname (if empty, project name or company name)

Company Name

Company owning the device

Device Make

Instantel

Device Model

Micromate

Project Name

Associated project name

ContractorName

The first project admin name (if empty, company name)

Contractors Contact Information

The first project admin email (if empty, company contact email. If empty, "Unknown Contact")

Contractors Contact Number

First project admin's phone number (if empty, "Unknown Phone")

Longitude

Decimal coordinates of device as shown on map

Latitude

Decimal coordinates of device as shown on map

Example

"ProjectName": "Flatiron Plaza Development",
"ContractorName": "Johan Johanson",
"ContractorsContactInformation": "Johan Johanson",
"ContractorsContactNumber": "555-555-5555",
"DeviceDeploymentAddress": "1 main street",
"DeviceLocationName": "building 1",
"DeviceMake": "Instantel",
"DeviceModel": "Micromate",
"DeviceSerialNo": "UM12345",
"CompanyName": "Titan Earthworks Ltd.",
"Long": -75.70027,
"Lat": 45.42553,