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Taoglas CROWD Insights™ and WatchGuard® Wi-Fi Cloud Analytics Integration

Deployment Overview

WatchGuard Cloud and Taoglas CROWD Insights are integrated to provide workplace monitoring of people flow via Wi-Fi access point deployments.

Integration Summary

The services and hardware used to test integration include:

- Taoglas CROWD Insights account
- WatchGuard access points
- WatchGuard Wi-Fi Cloud account
- A floor plan drawing in either JPG or PNG file format
- The MAC address of each Wi-Fi access point

Test Topology

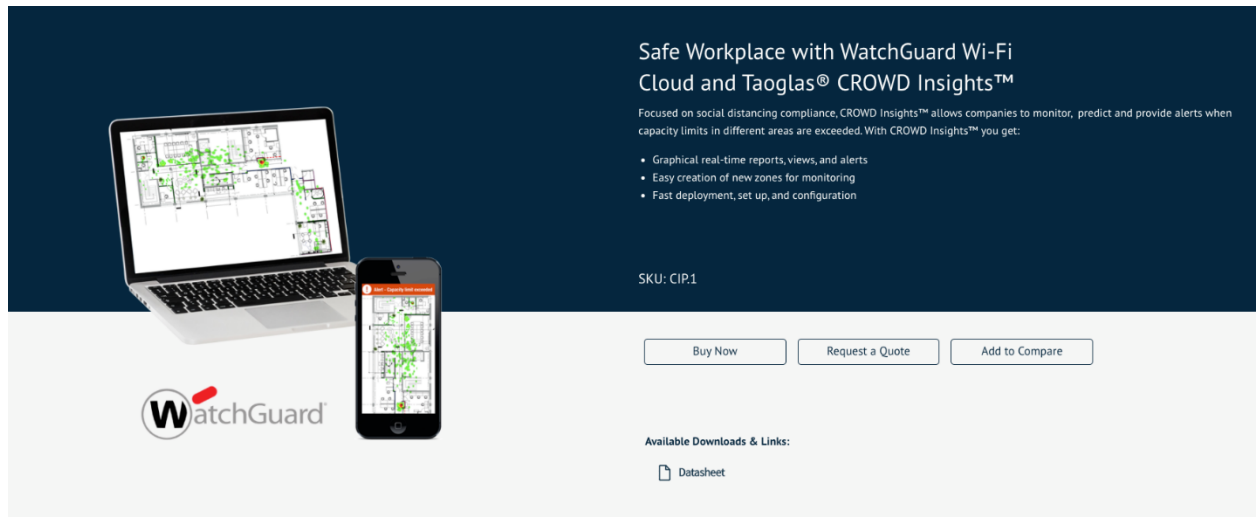


Activate Taoglas CROWD Insights

To configure Taoglas CROWD Insights and integrate it with WatchGuard Wi-Fi Cloud, you must have an active subscription for Taoglas CROWD Insights.

1. Go to the [WatchGuard Taoglas CROWD Insights](#) web page.
2. Click on **Buy Now**.

This integration uses a one-year subscription as an example.



Safe Workplace with WatchGuard Wi-Fi Cloud and Taoglas® CROWD Insights™

Focused on social distancing compliance, CROWD Insights™ allows companies to monitor, predict and provide alerts when capacity limits in different areas are exceeded. With CROWD Insights™ you get:

- Graphical real-time reports, views, and alerts
- Easy creation of new zones for monitoring
- Fast deployment, set up, and configuration

SKU: CIP:1

[Buy Now](#) [Request a Quote](#) [Add to Compare](#)

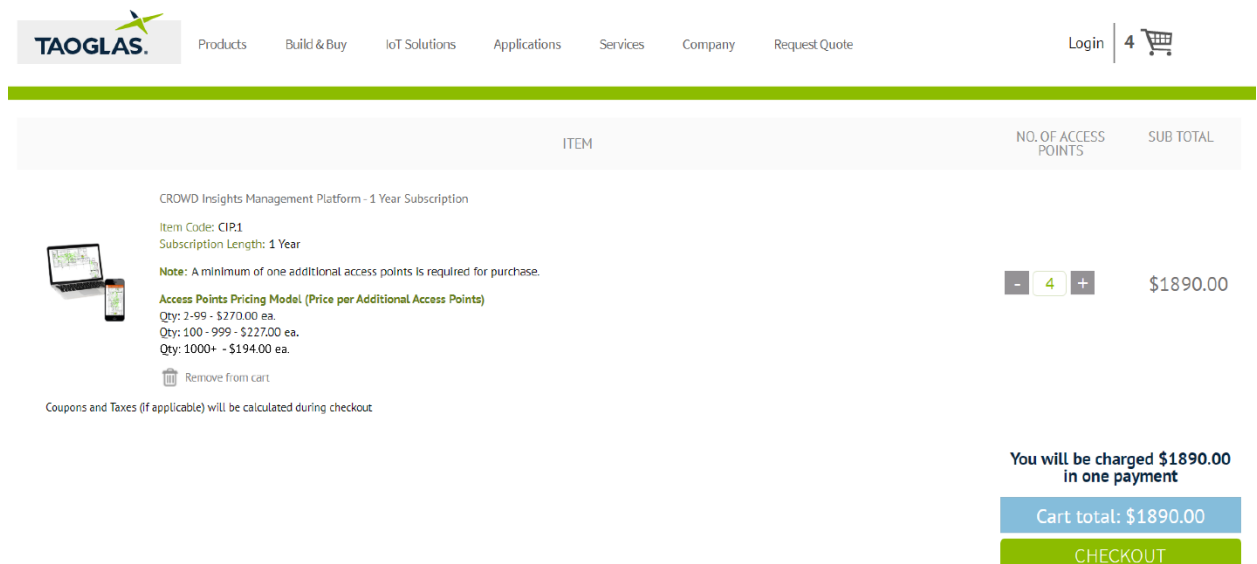
Available Downloads & Links:
[Datasheet](#)

Taoglas and WatchGuard have partnered to offer businesses and enterprises getting back to work safely. CROWD Insights™ can be deployed in a matter of hours utilizing existing WatchGuard Wi-Fi infrastructure to measure, monitor, predict, alert and notify when capacity limits in different areas are exceeded.


WatchGuard is the only company to provide the technology and solutions that you can use to build a Trusted Wireless Environment – delivering on each of the three core pillars of market-leading performance, scalable management, and verified comprehensive security. To learn more about Wi-Fi security from WatchGuard visit www.watchguard.com/wifi

3. Add in number of access points.
4. Verify the subscription you selected, then click **CHECKOUT**.

The currency will adjust based on which region you're in.



TAOGLAS. Products Build & Buy IoT Solutions Applications Services Company Request Quote Login 4

ITEM	NO. OF ACCESS POINTS	SUB TOTAL
 <p>CROWD Insights Management Platform - 1 Year Subscription Item Code: CIP:1 Subscription Length: 1 Year Note: A minimum of one additional access points is required for purchase. Access Points Pricing Model (Price per Additional Access Points) Qty: 1-99 - \$270.00 ea. Qty: 100-999 - \$227.00 ea. Qty: 1000+ - \$194.00 ea. Remove from cart</p>	<div> - 4 + </div>	\$1890.00

Coupons and Taxes (if applicable) will be calculated during checkout

You will be charged \$1890.00 in one payment

Cart total: \$1890.00

CHECKOUT

5. Type your account information. You can log in to a current account, create a new user account, or checkout as guest.

For this example integration, we use a guest account.

USER ACCOUNT		
<input checked="" type="radio"/> Checkout as Guest	<input type="radio"/> Create User Account & Checkout	<input type="radio"/> Login

PERSONAL DETAILS	
First Name *	Last Name*
<input type="text"/>	<input type="text"/>
Email Address*	Accounts Department Email Address for Invoice
<input type="text"/>	<input type="text"/>
Company	Phone *
<input type="text"/>	<input type="text"/>
Tax-Exempt Cert Number ¹ (if applicable)	
<input type="text"/>	
<p>¹ Please Note: Your order can not be shipped until we receive a scan of your Resale Certificate. Please email a scanned copy to customerserviceUSA@taoglas.com</p>	
Website URL	
<input type="text" value="www.taoglas.com"/>	






BILLING ADDRESS	
Address*	Address (line 2)
<input type="text"/>	<input type="text"/>
City*	State / Region / County *
<input type="text"/>	Alabama ▾
Zip/Postal code *	Country *
<input type="text"/>	United States ▾



TAOGLAS COUPON ORDER		
If you have a valid Coupon Code, enter it here:	<input type="text"/>	<input type="button" value="Add"/>
<input type="checkbox"/> I would like to stay updated with new products and offers		
<input type="checkbox"/> I accept the Terms & Conditions		
<input type="button" value="SUBMIT"/>		

All information you provide to us will be kept confidential. We will never sell, exchange or market it in any way.

6. For WatchGuard resellers, please add your discount coupon code here and press "ADD". If you have any questions, please contact your WatchGuard representative.
7. Select the **I accept the Terms & Conditions** check box.
8. Click **SUBMIT**.
9. Verify your billing address, then click **Pay for Subscription**.

Order Summary

ITEM	QTY	SUB TOTAL
 CROWD Insights Management Platform - 1 Year Subscription Item Code: CIP.1  Remove	4	\$1890.00
SUB TOTAL		\$1890.00
APPLICABLE TAXES		\$115.76
COUPON DISCOUNT 30%		-\$567.00
Order Total		\$1438.76

Billing Address

Will Smith
 www.taoglas.com
 8375 Camino Santa Fe, Suite A
 San Diego
 AL
 92121
 United States

Pay for Subscription

10. Type your payment card details, then click **COMPLETE SUBSCRIPTION**.
After you complete your subscription, a confirmation message with your subscription details appears.

Secure Payment Form


Card Details*



Number
MM / YY CVC

COMPLETE SUBSCRIPTION

11. You will then receive a confirmation email with additional information required for account activation.



Thank you for your Subscription Order #6743

Congratulations you are now signed up to Taoglas CROWD Insights.

You will receive a confirmation email with additional information required for account activation.

ORDER DETAILS:

SUBSCRIPTION
CROWD Insights Management Platform - 1 Year Subscription

NO. ACCESS POINTS
4

START DATE
06-07-2020

RENEWAL DATE
06-07-2021

PAYMENT INTERVAL
Yearly

SUBSCRIPTION PRICE
\$ 1890.00

TAX
\$ 115.76


DISCOUNT
\$ 567.00

TOTAL
\$ 1438.76

CUSTOMER NAME
Will Smith

12. Click **Complete Technical Setup**.

The Customer Information page appears.



Customer Information

Customer Name:

Date Created:

Validity Start Date:

Validity End Date:

Deployment:

Timezone:

GPS Location Coordinates:

End Customer Contact Names

End Customer Technical Contact Name:

End Customer Technical Contact Email:

End Customer Commerical Contact Name:

End Customer Commerical Contact Email:

CROWD Insights Admin User

Name:

Email:

Reseller Contact Names (if applicable)

Reseller Technical Contact Name:

Reseller Technical Contact Email:

Reseller Commerical Contact Name:

Reseller Commerical Contact Email:

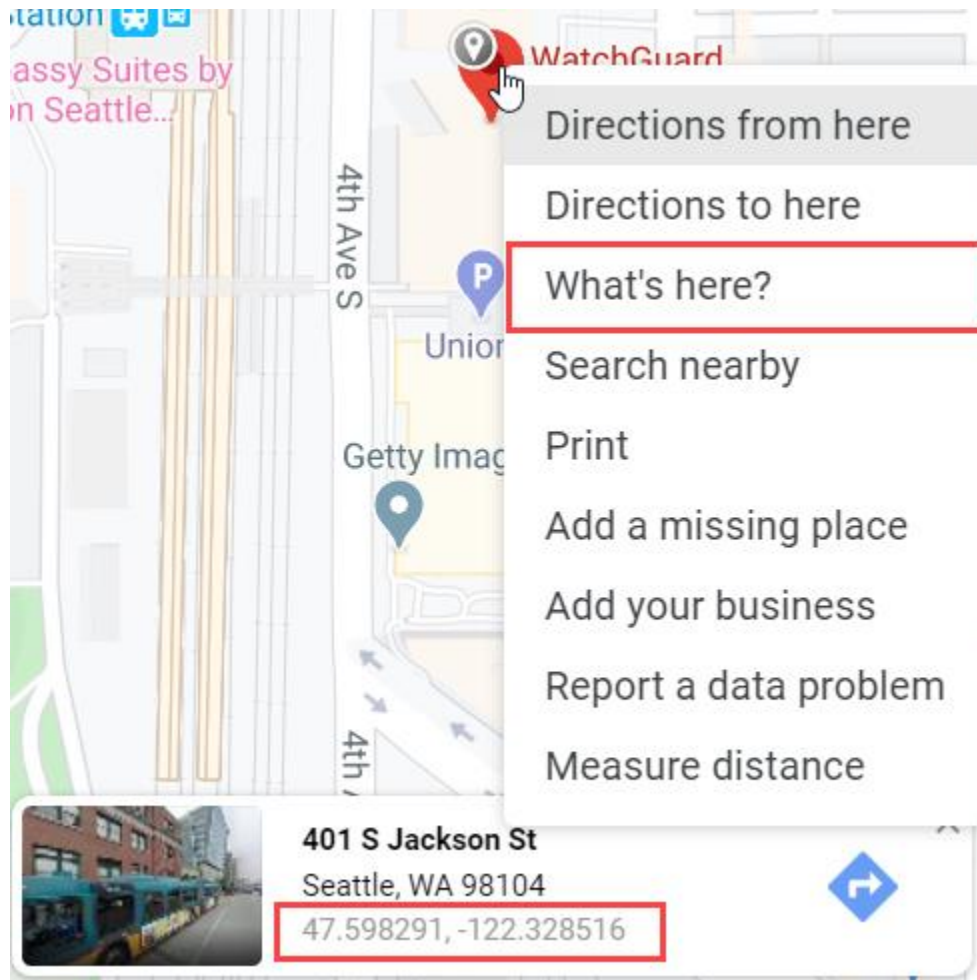
Submit

13. From the **Timezone** drop-down list, select the time zone for your location.

14. In the **GPS Location Coordinates** text box, to identify GPS location coordinates, you can use Google Maps.

Type your address in Google Maps, then right-click the red location dot, then select **What's here?**.

Copy the GPS formatted location of the building. In this example, the GPS coordinates of the WatchGuard corporate headquarters are 47.598027, -122.328664.



15. Type your **End Customer Contact Names**, **CROWD Insights Admin User**, and **Reseller Contact Names**.
16. Complete the remaining fields in the customer information page, then click **Submit**.
A confirmation message appears.

Success - Technical Setup Complete

Your information has been submitted and a representative will be in touch within one business day.

Thank You

Taoglas CROWD Insights Team

17. After you submit your customer information, Taoglas support will configure your customer account.

If you have any questions, please contact Taoglas support for WatchGuard via wgsupport@taoglas.com.

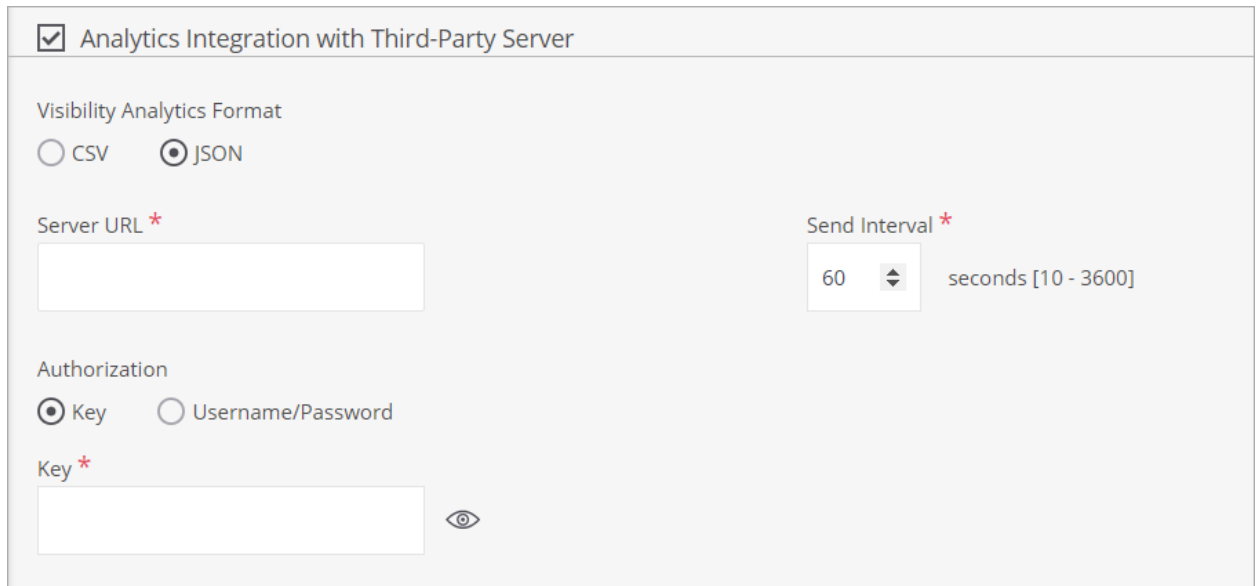
18. You will receive an email from Taoglas with the following information:

- JSON formatted server URL
- Send interval
- Authorization key

Configure the WatchGuard Wi-Fi Cloud Analytics Integration

These instructions describe how to configure WatchGuard Wi-Fi Cloud for integration with Taoglas CROWD Insights. Your WatchGuard access points must already be installed and configured. For detailed information on WatchGuard Wi-Fi Cloud access point deployment, see the [Getting Started Guide](#).

1. Log in to your WatchGuard Wi-Fi Cloud account.
2. Open Discover.
3. Open the **Navigator**, then select the location where to apply the Taoglas CROWD Insights integration information.
4. Select **Configure > WiFi**.
5. Select **Devices Settings**.
6. Select the **Analytics Integration with Third-Party Server** check box.

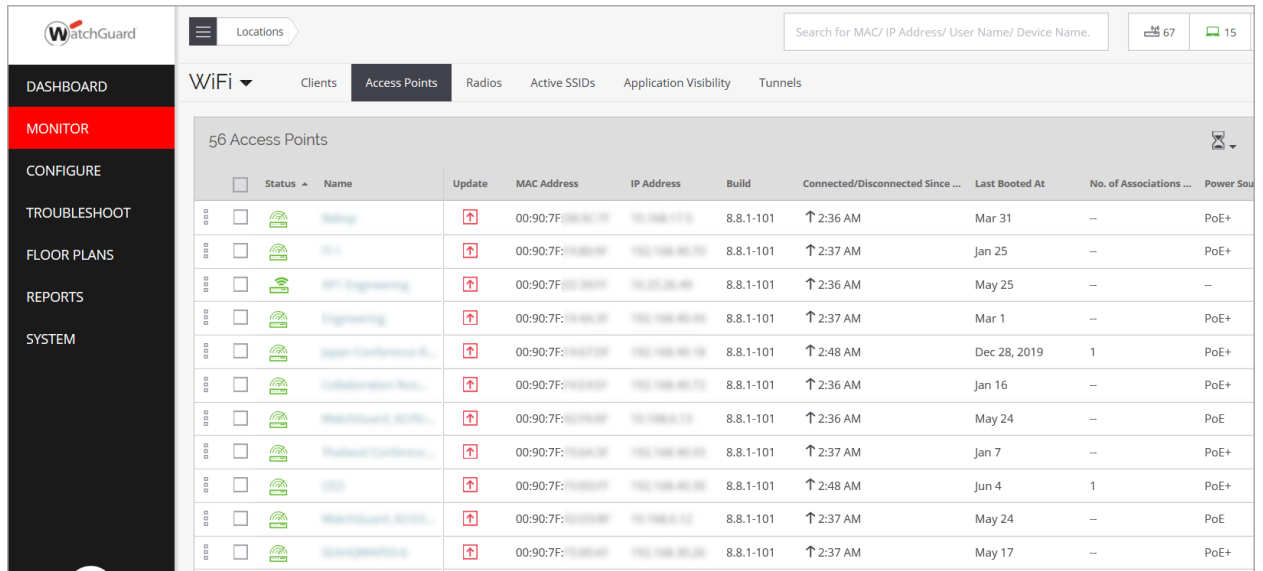


The screenshot shows a configuration form titled "Analytics Integration with Third-Party Server". It includes a checked checkbox for the title. Under "Visibility Analytics Format", the "JSON" radio button is selected. The "Server URL" field is empty and marked with a red asterisk. The "Send Interval" is set to 60 seconds in a dropdown menu, also marked with a red asterisk, with a range of [10 - 3600]. Under "Authorization", the "Key" radio button is selected. The "Key" field is empty and marked with a red asterisk, with a toggle icon to its right.

7. Select **JSON** as the **Visibility Analytics Format**.
8. In the **Server URL** text box, type the server URL provided by Taoglas support.
9. Set the **Send Interval** to 60 seconds.
10. Select **Key** as the **Authorization** method.
11. In the **Key** text box, type the key provided by Taoglas support.
12. Click **Save**.

Get the MAC Address for the Access Points in Wi-Fi Cloud

1. In WatchGuard Wi-Fi Cloud, open Discover.
2. Open the **Navigators**, then select the location of the access points that will send data to Taoglas.
3. Select **Monitor > WiFi > Access Points**.
In the list of activated access points, you can view the MAC address for each access point.



Status	Name	Update	MAC Address	IP Address	Build	Connected/Disconnected Since	Last Booted At	No. of Associations	Power Source
	Building	↑	00:90:7F:10:10:10	10.10.10.10	8.8.1-101	↑ 2:36 AM	Mar 31	--	PoE+
	Wi-Fi	↑	00:90:7F:10:10:10	10.10.10.10	8.8.1-101	↑ 2:37 AM	Jan 25	--	PoE+
	Wi-Fi Engineering	↑	00:90:7F:10:10:10	10.10.10.10	8.8.1-101	↑ 2:36 AM	May 25	--	--
	Engineering	↑	00:90:7F:10:10:10	10.10.10.10	8.8.1-101	↑ 2:37 AM	Mar 1	--	PoE+
	Super Conference Rm.	↑	00:90:7F:10:10:10	10.10.10.10	8.8.1-101	↑ 2:48 AM	Dec 28, 2019	1	PoE+
	Collaboration Rm.	↑	00:90:7F:10:10:10	10.10.10.10	8.8.1-101	↑ 2:36 AM	Jan 16	--	PoE+
	WatchGuard 8070L	↑	00:90:7F:10:10:10	10.10.10.10	8.8.1-101	↑ 2:36 AM	May 24	--	PoE
	WatchGuard 8070L	↑	00:90:7F:10:10:10	10.10.10.10	8.8.1-101	↑ 2:37 AM	Jan 7	--	PoE+
	Wi-Fi	↑	00:90:7F:10:10:10	10.10.10.10	8.8.1-101	↑ 2:48 AM	Jun 4	1	PoE+
	WatchGuard 8070L	↑	00:90:7F:10:10:10	10.10.10.10	8.8.1-101	↑ 2:37 AM	May 24	--	PoE
	WatchGuard 8070L	↑	00:90:7F:10:10:10	10.10.10.10	8.8.1-101	↑ 2:37 AM	May 17	--	PoE+

- Record the MAC address of each access point for the specified location.

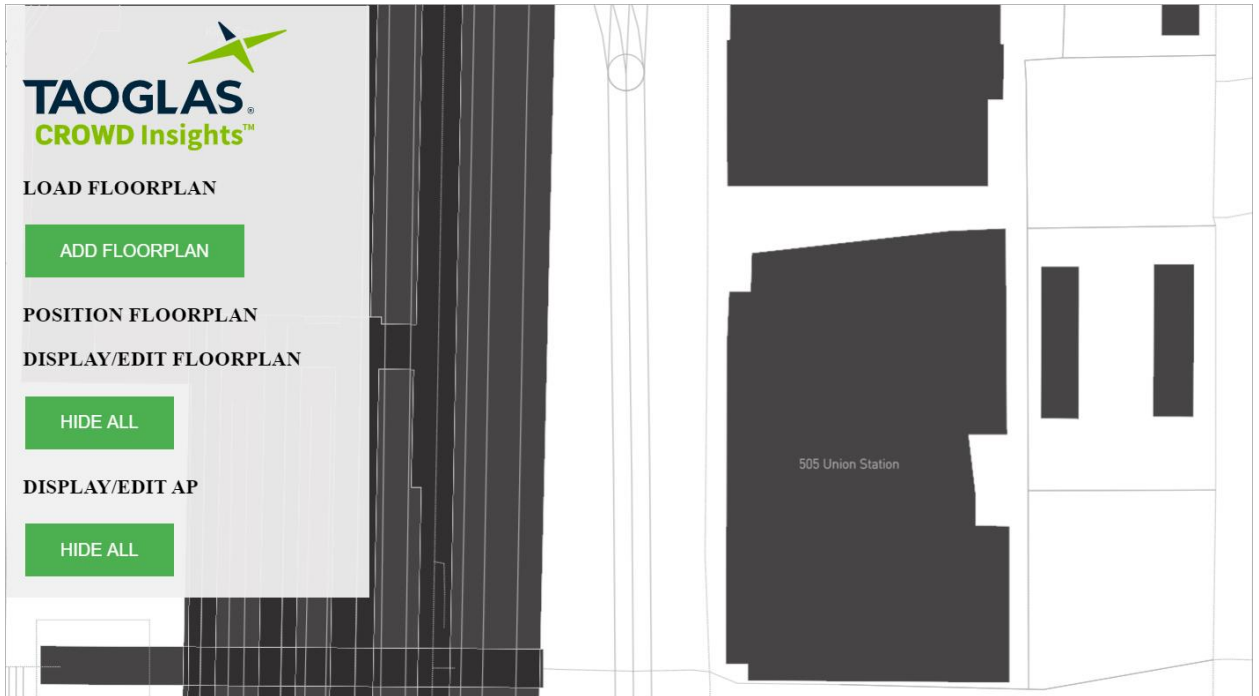
Add Floor Plans to Identify GPS Location of Wi-Fi Access Points

Taoglas will provide you with a setup URL for identifying the GPS locations of your Wi-Fi access points inside of your building. The format of the URL will be similar to:

https://crowdinsights.taoglas.com/placement/watchguard/<unique_identifier_code>/

- To upload a floor plan and place your access points, log in to your Taoglas account.

The Taoglas map for the location configured in setup appears.

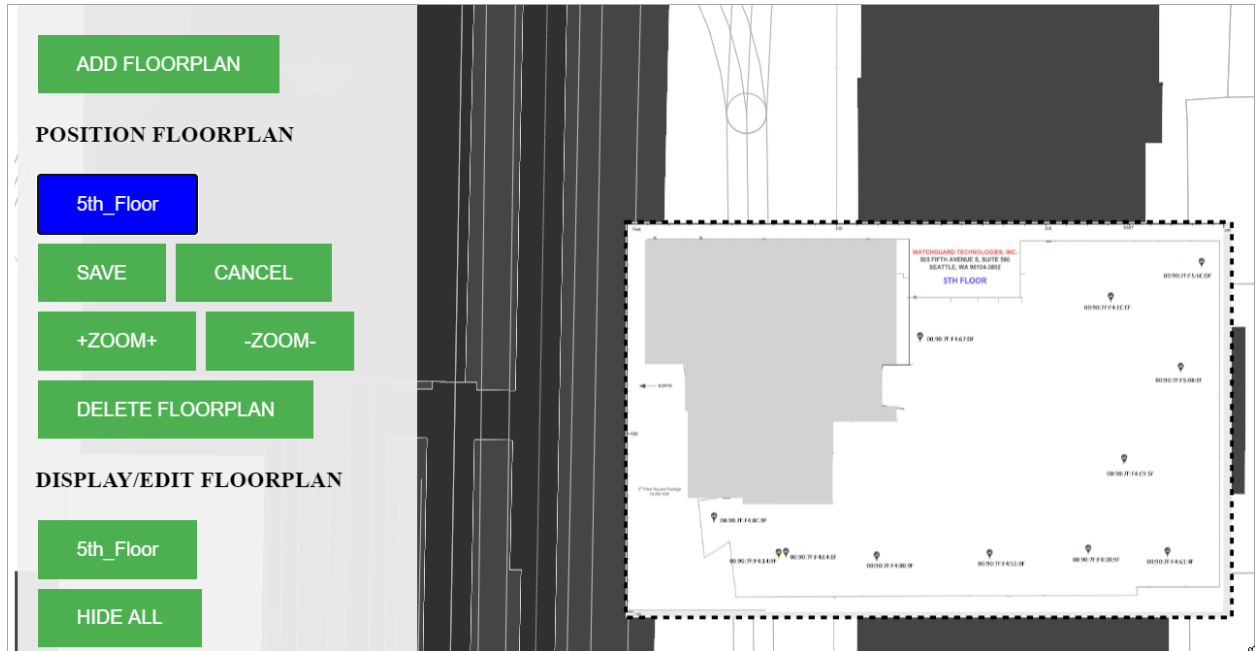


2. Click **Add Floorplan**.

A screenshot of the 'LOAD FLOORPLAN' form. It has a light grey background. At the top, the text 'LOAD FLOORPLAN' is in bold. Below it is a large green button labeled 'ADD FLOORPLAN'. Underneath that is a green bar containing a 'Choose File' button and the text 'No file chosen'. Below the green bar is a white text input field labeled 'FLOORPLAN ID'. At the bottom is a green button labeled 'UPLOAD'.

3. Click **Choose File** to select a floor plan image for upload.
The floor plan image must be in JPG or PNG format and less than 4MB in size.
4. In the **Floorplan ID** text box, type a description of the floor plan. For example, this could be the floor level of the building, or a specific area of a building.

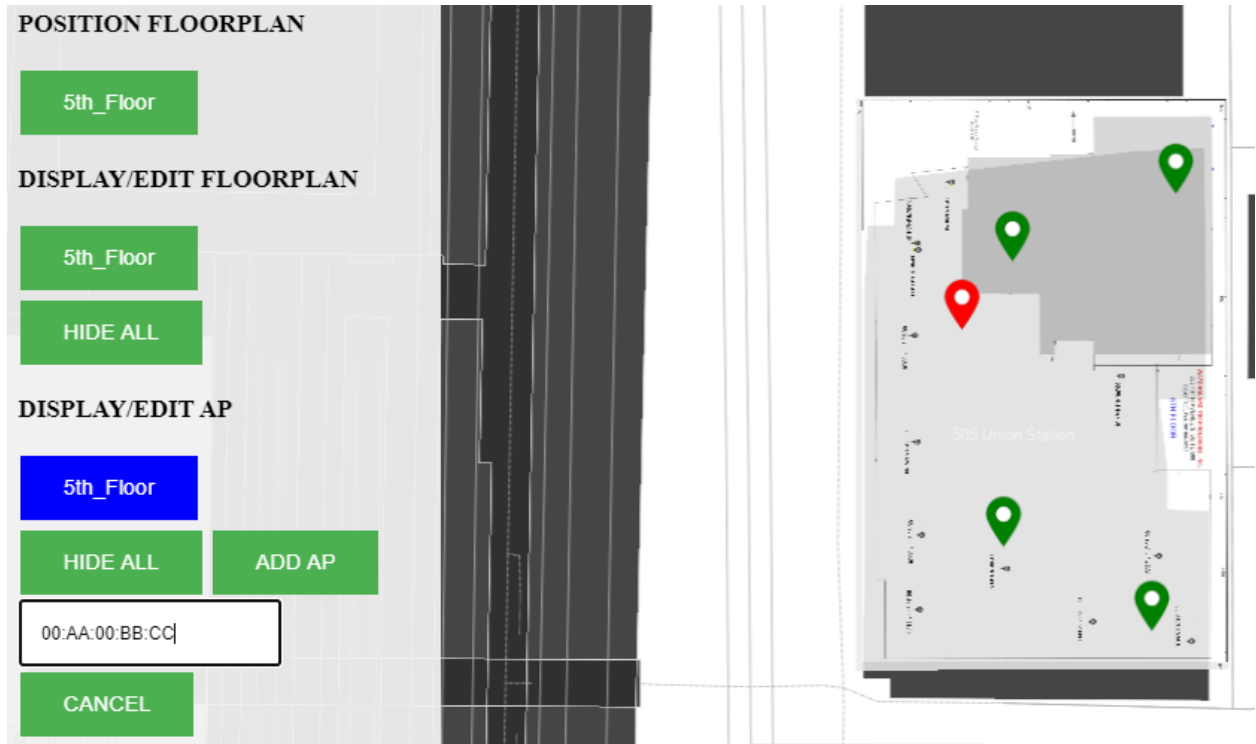
5. Click **Upload**.
6. To add and position the floor plan, in the **Position Floorplan** section, click the name of the floor plan.



- Position your mouse pointer over the image.
 - Use the arrows, hand, and Zoom buttons to position the image correctly.
- Note:** The map must be scaled to the building outline to ensure location precision.

7. When finished, click **Save**.
You can add multiple floor plans if required.
8. In the **Display/Edit AP** section, select the name of the floor plan to add access points.

9. Select **Add AP**.



- A red location dot appears on the map to represent the access point. Move the access point to the appropriate location on the floor plan.
- Add the access point ID. The access point ID is the MAC address of the device. For example, 00:aa:00:bb:00:cc

10. When finished, click **Save**.

The access point dot turns green.

11. Repeat these steps to add all your access points with their corresponding MAC address to each floor plan as required.

Test the Integration

You can test the WatchGuard Wi-Fi Cloud and Taoglas CROWD Insights integration from the Taoglas CROWD Insights dashboard.

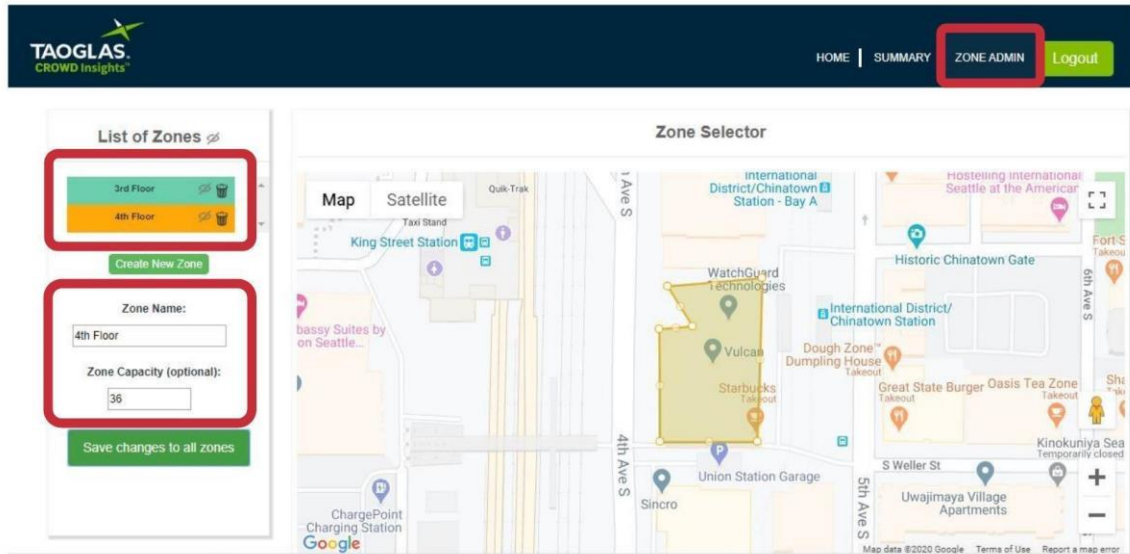
1. Go to <https://CROWDinsights.taoglas.com/>.
2. Log in with the credentials sent to you by Taoglas.

The Taoglas CROWD Insights page appears.

3. Please check that data is flowing. This can take up to 5 minutes before data is displayed.
If there's any issues, please contact wgsupport@taoglas.com

Create a Zone

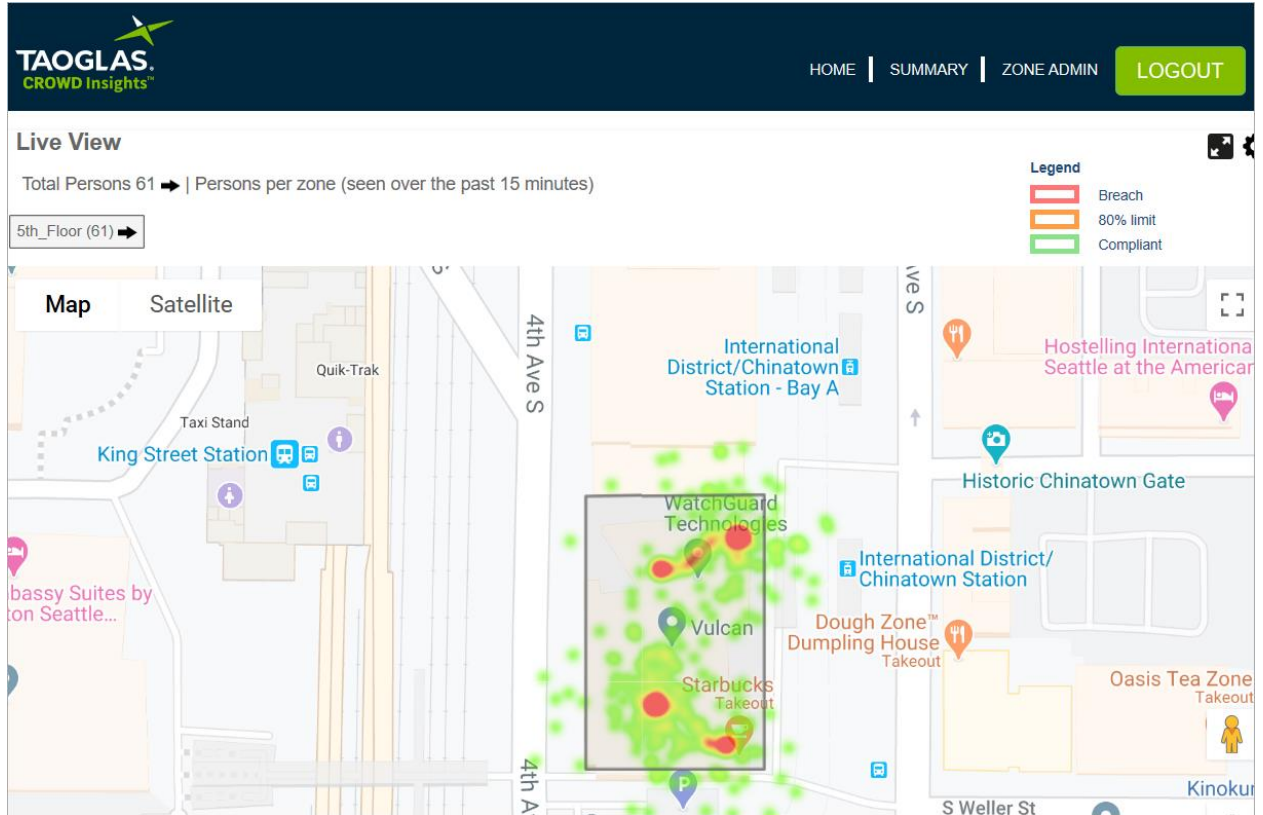
The zone admin allows you to create zones, enter capacity limits, and view alerts through the Live widget.



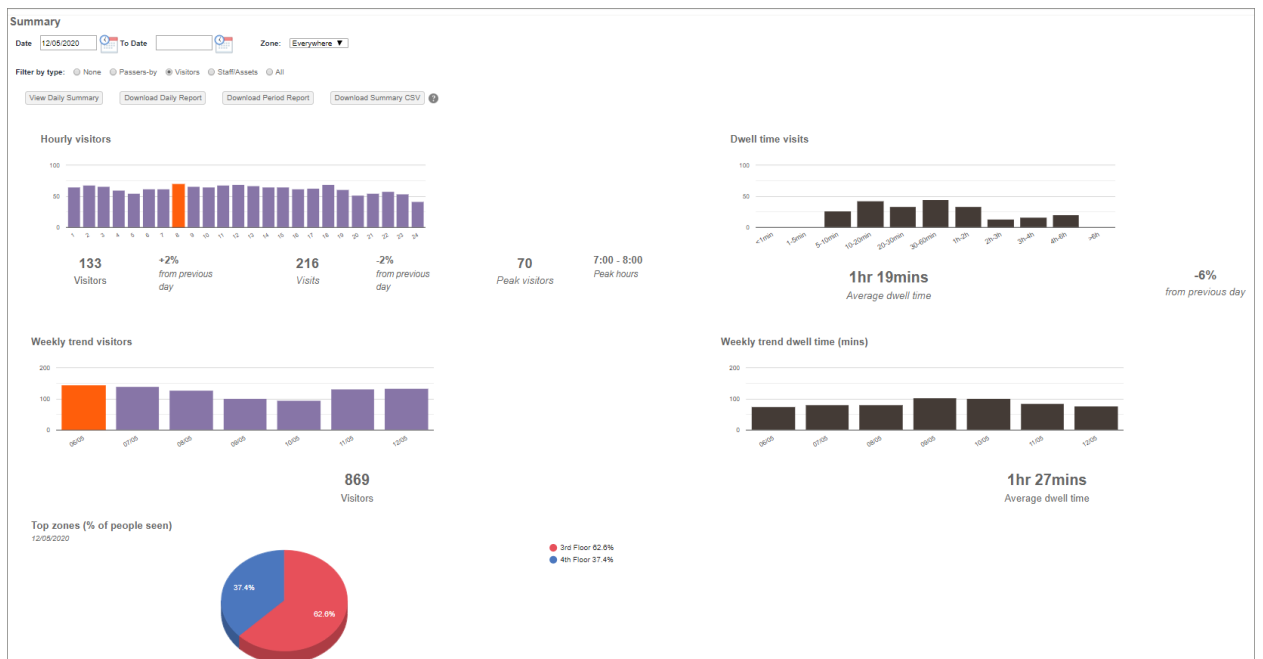
Creating a Zone

1. To create one or more zones, click **Zone Admin** in the navigation menu.
2. Click on **Create New Zone**.
3. Use the shape tools to draw the zone in the area you are interested in monitoring.
4. In Zone Name, enter a name for the zone.
5. As an option, you may enter a zone capacity that will be used in the alert you when the capacity is near, at, or over the limit.
6. Click on **Save Changes to all zones**.
7. Click on **Home** to return to the dashboard. The new zone is shown on the Live View. Additional reports will be available overnight, for this Zone.

Use the **Live View** map of the location to view current activity.



- You can also view **Hourly Visitors**, **Dwell Time Visits**, **Weekly Trend Visitors**, **Weekly Trend Dwell Time**, and **Top Zones**.



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