



**ADVANCED**  
NETWORK DEVICES

## Raptor Inbound CAP Integration

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## Static Electric Warning



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## OVERVIEW

ClockWise 1.17.22 and higher can receive inbound CAP messages from Raptor via POST. ClockWise sends notifications that meet the CAP message criteria, enabling Raptor alerts to your AND speakers.

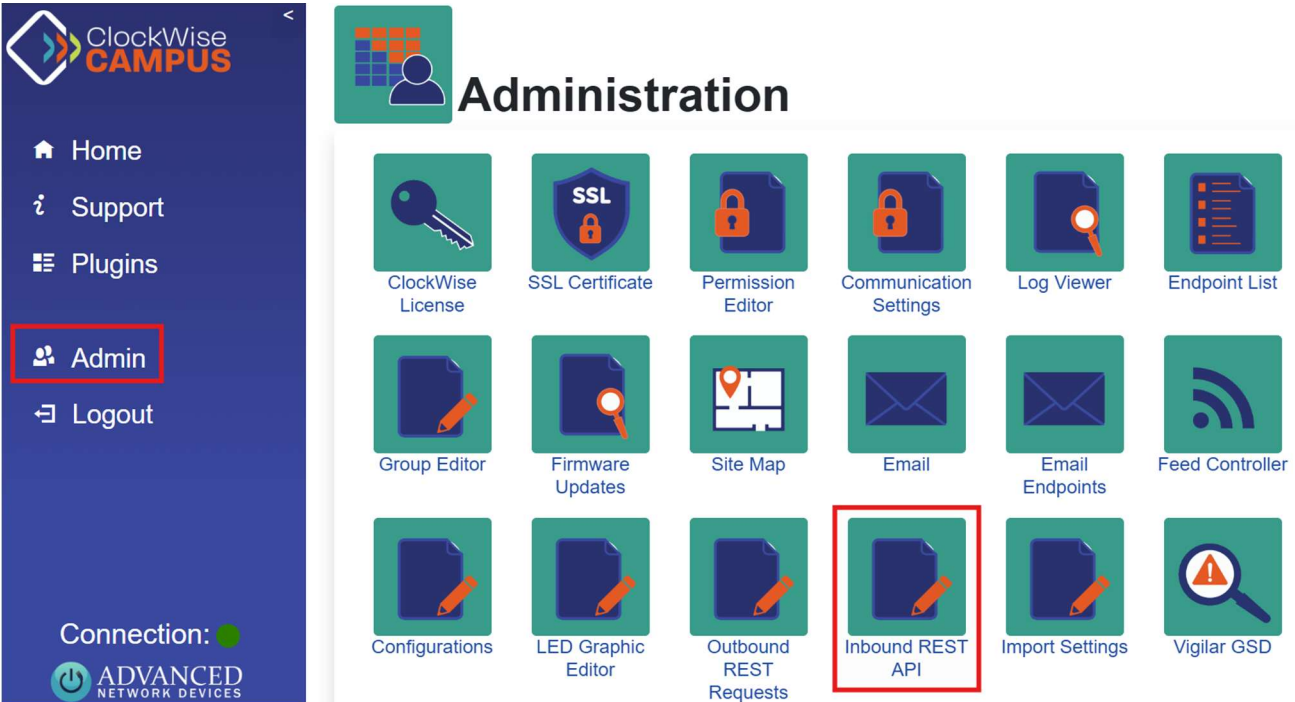
You will need to ensure that the CAP messages sent from Raptor are able to reach the ClockWise machine. This can be performed via a reverse proxy or port forwarding. The local address that ClockWise listens for CAP messages on is `https://{CW_Machine_IP}:44390/api/cap`.

This document walks through the setup for both the ClockWise and Raptor sides of the integration.

## GENERATING THE CREDENTIAL IN WEB CLOCKWISE

To integrate CW with Raptor you will need to first generate a credential in ClockWise:

1. Log in to the ClockWise Web Interface (`https://{CW_Machine_IP}:44390`). Next, go to the **Admin > Inbound REST API** page (`/InboundApiCredentials`):



The screenshot shows the ClockWise Campus Administration interface. On the left is a dark blue sidebar with navigation options: Home, Support, Plugins, Admin (highlighted with a red box), and Logout. At the bottom of the sidebar, it shows 'Connection: [green dot]' and the 'ADVANCED NETWORK DEVICES' logo. The main area is titled 'Administration' and contains a grid of 18 icons for various management tasks. The 'Inbound REST API' icon, located in the third row, second column, is highlighted with a red box. Other icons include ClockWise License, SSL Certificate, Permission Editor, Communication Settings, Log Viewer, Endpoint List, Group Editor, Firmware Updates, Site Map, Email, Email Endpoints, Feed Controller, Configurations, LED Graphic Editor, Outbound REST Requests, Import Settings, and Vigilar GSD.

2. Generate a credential by giving it a name, description of your choice. Select **API Key** as the **Authorization Type**.

## Inbound REST API

Generate Credentials   Manage Credentials

Client Name \*

InboundRaptor

Description \*

Credentials to authorize a request to send CAP through my ClockWise instance.

Authorization Type \*

API Key

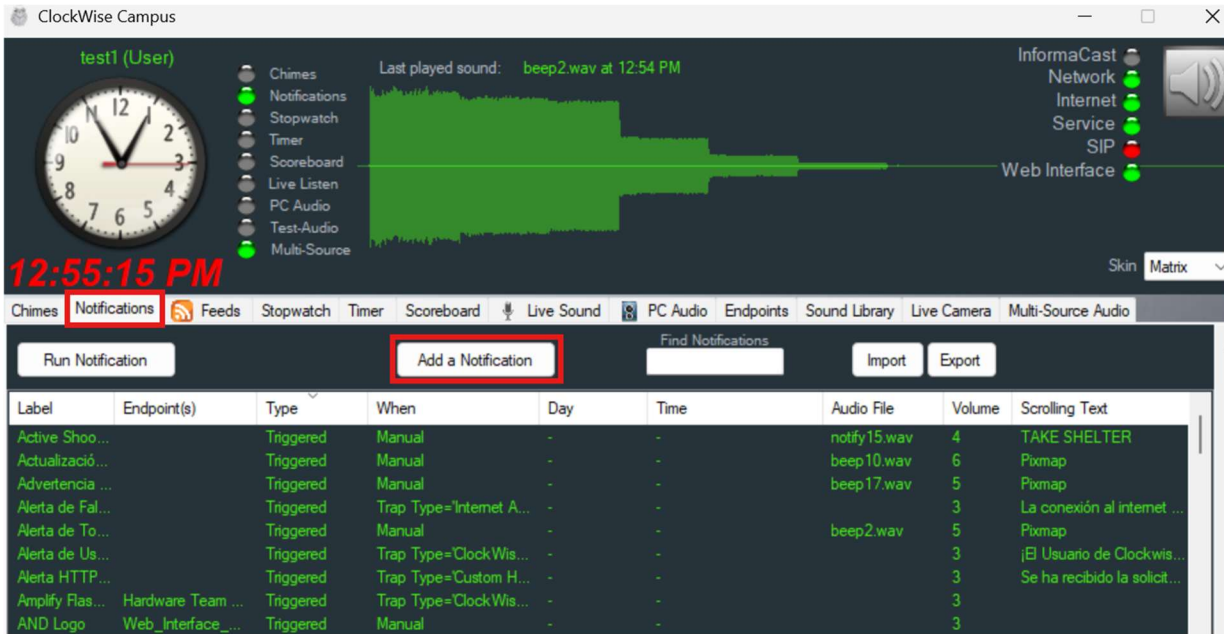
Generate  
Credentials

3. Click **Generate Credentials** and **copy** the **API Key** for the creation of the CAP credentials in Raptor. We recommend pasting the API Key in a text file as it is necessary for generating the CAP credentials in Raptor.

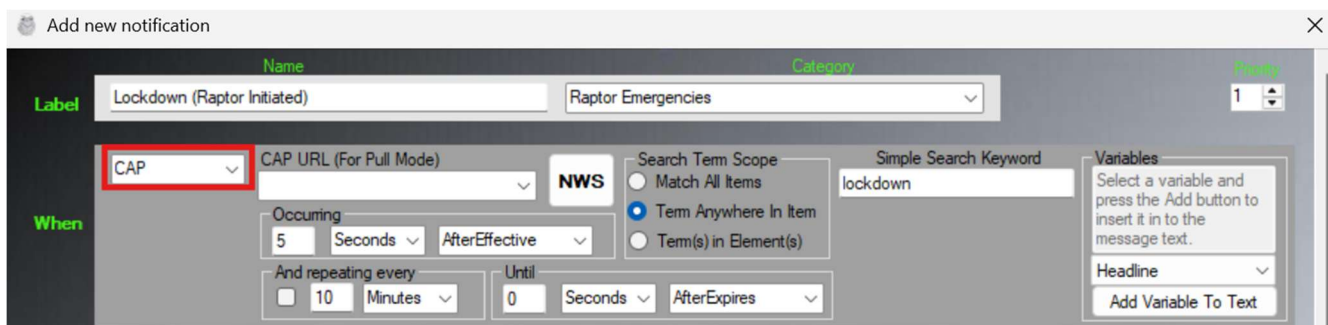
## CREATING CAP NOTIFICATIONS IN CLOCKWISE

To configure the notifications in ClockWise, you will need access to the Desktop application. You can create multiple notifications to be sent for different Raptor emergencies.

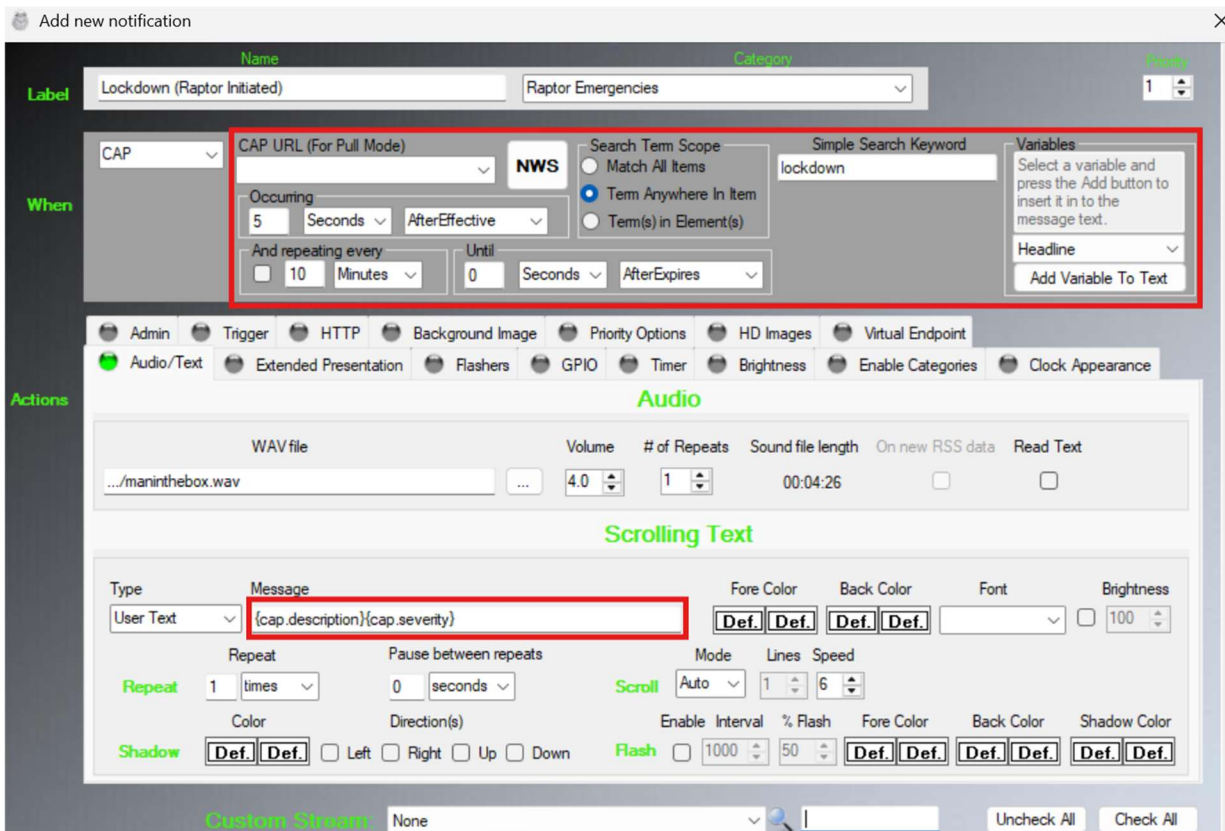
1. Go to the **Notifications** section and click the **Add a Notification** button:



2. Notification configuration can vary depending on the purpose of the notification. The only essential configuration is **When** the notification will be fired. Set the first dropdown box in the **When** section to **CAP**:



- There are additional CAP related settings that can be changed to tailor the notification to fit your needs:



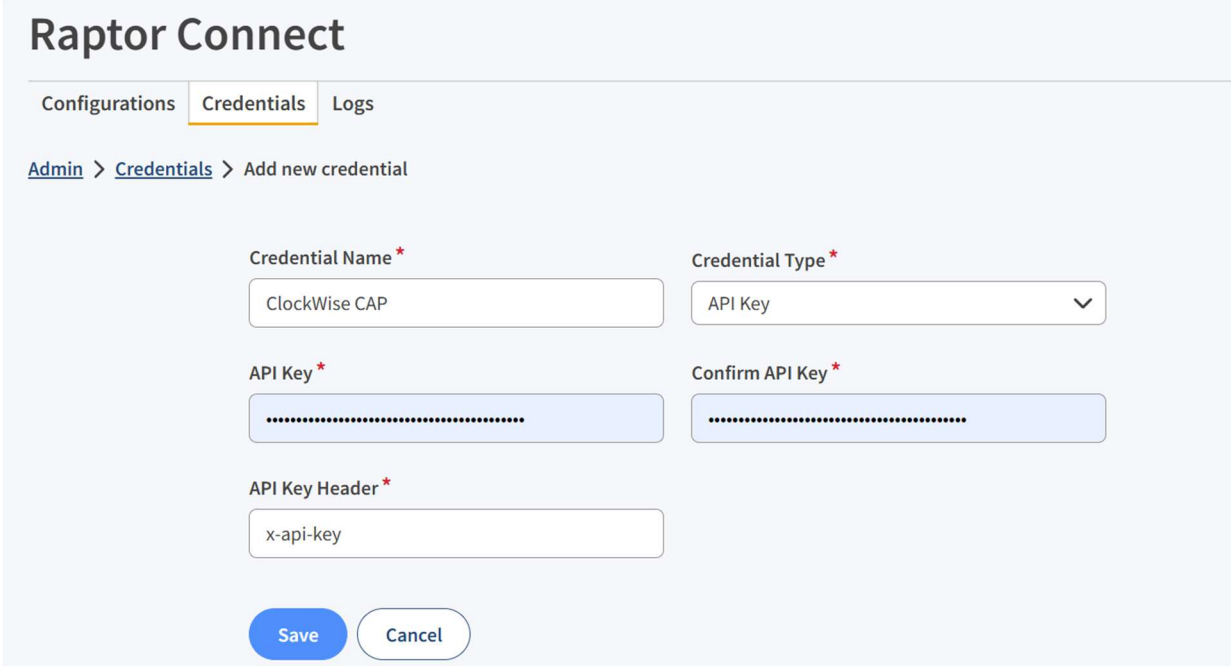
The screenshot shows the 'Add new notification' configuration window. The 'When' section is highlighted with a red box, indicating the timing and search criteria for the notification. The 'Actions' section shows various notification options, with 'Audio' and 'Scrolling Text' being the primary focus. The 'Message' field in the 'Scrolling Text' section contains the variable '{cap.description}{cap.severity}'.

- The **Occurring** section dictates when ClockWise plays the notification. This is based on the time the message was received. There are six options: **BeforeEffective**, **AfterEffective**, **BeforeOnset**, **AfterOnset**, **BeforeExpires**, and **AfterExpires**. Note: The CAP message must contain an **onset**, **effective**, or **expires** elements in the CAP payload.
  - The **And repeating every** section is for re-broadcasting the notification. This section is optional and disabled by default. Check the box to enable re-broadcasting.
  - The **Until** section defines when the notification expires. Configuration options are similar to the options found in the **Occurring** section.
  - Search Term Scope** limits the notification to trigger based on a specific Keyword. This allows you to configure different notifications for different Raptor emergencies.
  - The **Variables** section allows you to insert CAP payload elements (e.g., headline, description, instruction) into the notification's Message field. Click on the drop-down menu then select the variable you would like to add to the message. Then click the **Add Variable To Text** button to insert the variable into the **Message**.
- All other notification configuration can be changed as desired. This includes text, audio, images, and all other possible notification configuration. Click **OK** to save the notification.

## GENERATING THE CREDENTIAL IN RAPTOR

The next step is generating the credential in Raptor. You will need the API Key that was generated during the **Generating The Credential in Web ClockWise** section.

1. In Raptor, go to the **Configurations > Credentials** section and create a new Credential by clicking the **Add Credential** button. Create a new credential using the API key copied from the previous step:



**Raptor Connect**

Configurations | **Credentials** | Logs

[Admin](#) > [Credentials](#) > Add new credential

Credential Name \*  
ClockWise CAP

Credential Type \*  
API Key

API Key \*  
.....

Confirm API Key \*  
.....

API Key Header \*  
x-api-key

**Save** **Cancel**

2. Click **Save** to create the new Credential. Once you have successfully created the Credential, you will be able to create the configuration(s) to trigger events in ClockWise.

## CREATING CONFIGURATION(S) IN RAPTOR

1. To create a new configuration in Raptor, go to the Configurations page and click the **Add Configuration** button.
2. Use the credential that was created for ClockWise, set the destination to **https://{public\_address}:{external\_port}/api/cap**, and check the **Ignore SSL errors** box:

**Event Information**

Active

Configuration Type \*  
Emergency

Name \*  
ClockWiseEmergencyInitiationCAP

Credential  
ClockWiseCAP

Method \*  
POS

Destination URL \*  
https://{public\_address}:{external\_port}/api/cap

Ignore SSL errors

3. The Rules configuration depends on what type of event you would like to trigger. The **Content Type** should be left as **application/json**.
4. Click the **Save** button at the bottom of the page to create the new configuration. Repeat steps these steps to create additional configurations if desired.

## TESTING

It is recommended that testing is performed to confirm that the ClockWise notifications are being triggered successfully. You will be able to view CAP related entries in the ClockWise Service log to confirm if 1) a CAP message was received from Raptor, 2) if there were any alerts scheduled to play based on the received payload, and 3) if there were any errors with the received payload.