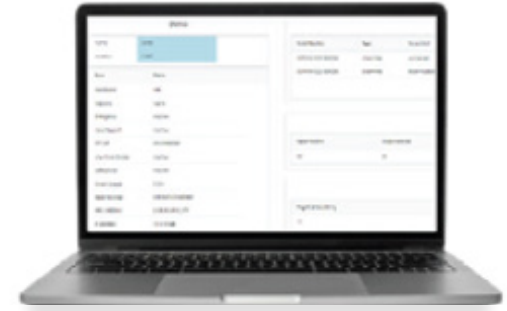


Cascadia

Networked Instructional Audio System



User Manual

Cascadia Web Console | Version 7.1.16



Table of Contents

INSTALLATION & SETUP

- 3** System Requirements
- 4** Download Virtual Cascadia Software
- 6** Getting Started
- 7** Logging In to the Cascadia Web Console
- 8** Forgotten Password Process
- 9** C25/TCC Admin Console

CASCADIA WEB CONSOLE

- 10** Dashboard
- 13** Base Details: Status
- 14** Base Details: Audio Settings
- 15** Base Details: Status History
- 16** Facility Maps
- 17** Add a New Map
- 18** Build the Base Map
- 19** Adjust the Base Map
- 20** Add Base Icons to the Map
- 24** Add Additional Base Icons
- 25** Logs
- 26** Firmware: Download
- 27** Firmware: Update
- 28** Apply Updates or Reboot Bases
- 29** Programming: Stand Alone
- 30** Programming: Integration Partners
- 31** SIP Calling
- 32** LDAP



INSTALLATION & SETUP

System Requirements

The recommended deployment for the Cascadia Web Console is the dedicated Cascadia Software Appliance offered by Lightspeed. This purpose-built hardware provides the most reliable and optimized environment for the software.

CASCADIA SOFTWARE APPLIANCE SPECS

- **Operating System:** Ubuntu 22.04
- **CPU:** Quad Core 3.0 GHz
- **RAM:** 8GB
- **Disk:** Space 128GB
- **Ports:**
 - 3x USB 2.0
 - 3x USB 3.2
 - 3x Displayport 1.4
 - 2x 1GbE LAN

As an alternative to the Cascadia Software Appliance, the Cascadia Web Console can also be hosted as a virtualized server using local computing resources. Below are the suggested minimum hardware requirements for running the Cascadia Web Console in a virtualized environment. Each software instance supports a single site.

VIRTUAL MACHINE HOST REQUIREMENTS

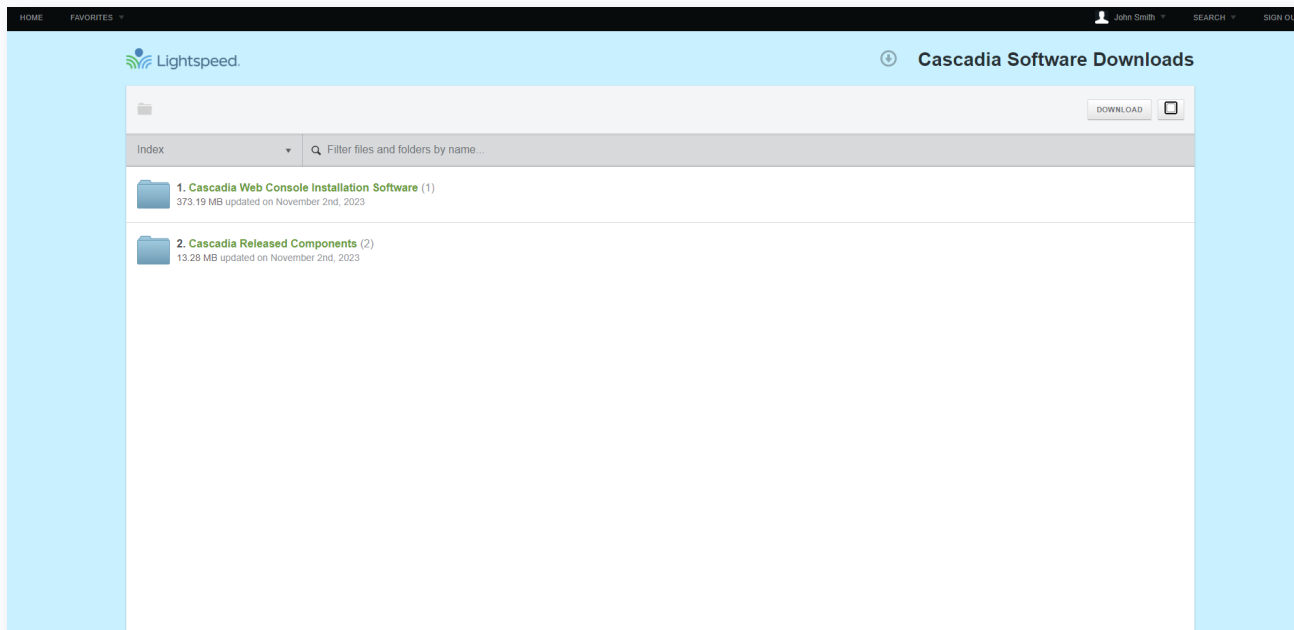
- 2 GHz dual-core processor or better
- 8 GB RAM
- 50 GB hard drive space (available)
- Internet accessible network connection



Download Virtual Cascadia Software

The Cascadia Web Console software is available for download at downloads.lightspeed-tek.com.

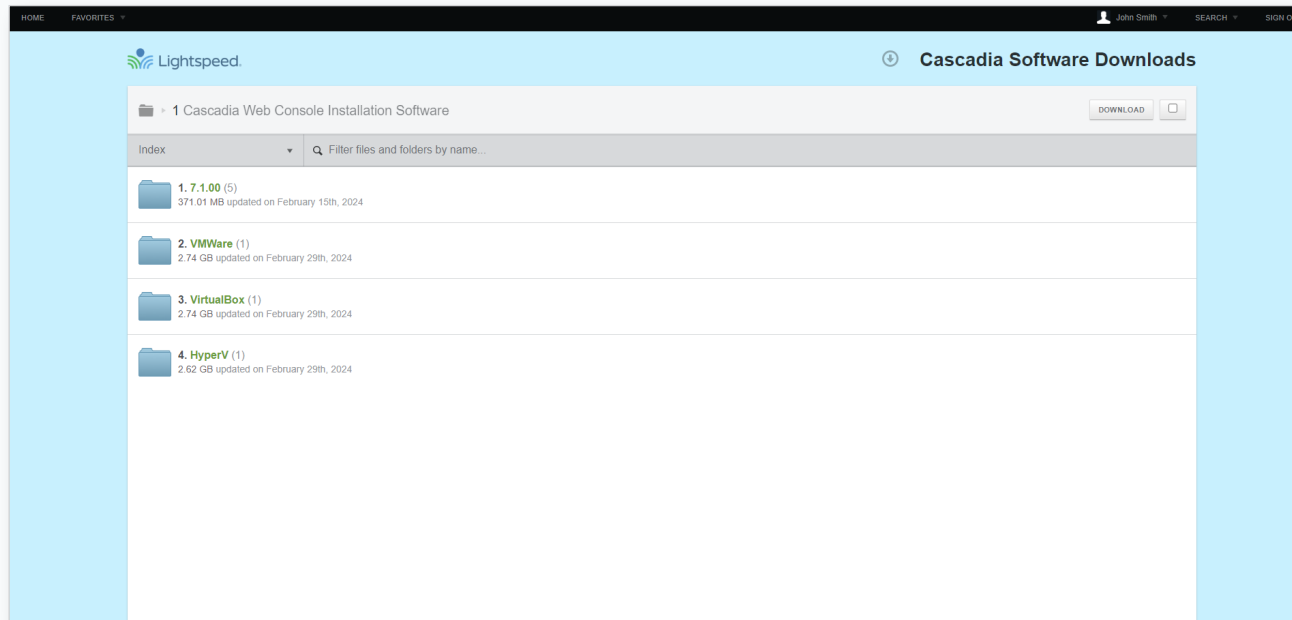
- To request access to the files, send a request to Service@lightspeed-tek.com or contact Lightspeed at 800.732.8999. Lightspeed will send you an invitation email to create an account to access the downloads.
- Once signed in, click on the Cascadia Software Download folder.
- Download the files in the Cascadia Web Console Installation Software folder to use in the installation of the Cascadia Web Console.
- The files in the Cascadia Released Components folder contain the latest firmware for the Cascadia products. These firmware files can be manually downloaded or accessed directly from within the Cascadia Web Console





Download Virtual Cascadia Software

- The Cascadia Web Console Installation Software folder includes multiple installation options.
- The Cascadia Software has been tested for deployment in a virtual environment.
- Virtualized servers are available for VirtualBox, VMWare, or Hyper-V.





Getting Started

After the appliance has been connected to the network and booted, follow these steps:

1. Locate the IP Address
 - By default, the appliance will obtain an IP address from your network via DHCP. Scan your network to identify the assigned IP address.
2. Accessing the Cascadia Web Console
 - Open a web browser.
 - Navigate to:
https://<Console_IP_Address>:3000
Example: https://192.168.1.5:3000
 - Log in using:
Username: **admin**
Password: **lightspeed**
3. Accessing Advanced Tools (Webmin)
 - For advanced network and Linux tools, open a browser and go to:
https://<Console_IP_Address>:10000
Example: https://192.168.1.5:10000
 - Log in using:
Username: **cascadia**
Password: **l34rning**

Network Settings

When a C25 base is connected to the same network as the Cascadia Web Console, the base will look for the web console using a specific DNS entry.

- Reserve an IP address for the Cascadia Web Console server using the server's MAC address.
- Add a DNS entry using "cascadia-console" for the server IP address.
- This will enable the C25 bases to find the server when they are connected to the network.

Note: When connecting via https://, your browser may show a security warning. This is normal. The device uses a self-signed certificate since it operates on your local network without access to a public certificate authority. Click Advanced > Continue (wording varies by browser) to proceed.



Logging In to the Cascadia Web Console

Enter **https://cascadia-console:3000** into a web browser to access the Cascadia Web Console.

User ID: **admin**

Password: **lightspeed**

Change password

The default login for the Cascadia Web Console is “lightspeed”. For security purposes, it is strongly recommended that you change the default password immediately upon first login. Click the “Change Password Now” button to create a new, secure password.

After updating the password, a Recovery Code will be generated. This code can be used to reset the password if it is ever forgotten. Please store the Recovery Code in a secure and accessible location.

A login form titled "Log In" with two input fields: "Email address/User ID" and "Password". Below the fields is a blue "Log In" button and a link for "Forgot Password?".

The Lightspeed dashboard interface. At the top, it shows the user "Admin, Role: Administrator" with a "Sign Out" button. A red banner indicates "Admin default password needs to be changed" with a "Change Password Now" button. The main area features a sidebar with navigation links (Dashboard, Maps, Logs, Firmware, Programming, SIP Calling) and a table with columns: Location, Product, Base Name, Serial Number, Base Status, Call Status, Mounting, MAC Address, IP Address, Date & Time, and Remove. The table is currently empty, showing "No Rows To Show". At the bottom, there is an "Export dashboard to CSV" button and the text "Lightspeed School".

A screen titled "Recovery Code Generated" with a shield icon. It contains an "Important" message: "Please save this recovery code in a secure place. You'll need it if you forget your password." Below this, the recovery code "TK25NA" is displayed in a box next to a copy icon. A note states: "This code is unique to your account and cannot be recovered. If you lose this code, you'll need to contact Lightspeed support." At the bottom is a blue "Got It" button.



Forgotten Password Process

If a password is forgotten, click the “Forgot Password” link on the login page.

You will be prompted to enter the Recovery Code that was generated when the password was originally created. Enter this code to set a new password.

The screenshot shows a dialog box titled "Password recovery code" with a close button (X) in the top right corner. Below the title is a row of six input boxes for a recovery code. The first box contains a vertical line, and the others are empty. Below the input boxes is the text "Use the code provided when you last changed your password." At the bottom are two buttons: "I don't have the code" and "Verify".

If the Recovery Code is not available, click “I don’t have the code.” Completing the reset process will require contacting Lightspeed Support at 1-800-732-8999. Provide the support representative with the displayed request code, and they will issue a corresponding response code that will allow the system to create a new password.

The screenshot shows a dialog box titled "Contact Lightspeed Support" with a close button (X) in the top right corner. The dialog is divided into three sections. The top section is light blue and contains a phone icon, the text "Call Lightspeed Support", and the phone number "Phone: 1-800-732-8999". The middle section has a blue header "Your Request Code" and displays the code "973292" next to a copy icon. Below this is the text "Provide this code to Lightspeed Support". The bottom section is titled "Enter Response Code from Lightspeed Support:" and contains six empty input boxes for a response code. At the bottom are two buttons: "Cancel" and "Verify Response Code".



C25/TCC Admin Console

The C25/TCC admin console is accessed through a web browser by navigating to the device's IP address on port 8888. By default, all Cascadia devices obtain a dynamic IP address via DHCP, so a network IP scan may be required to locate the device. If no DHCP server is available, each C25/TCC will fall back to a self-assigned static IP address of 192.168.32.132.

Example: `http://[C25_IP_ADDRESS]:8888`

The IP address or fully qualified domain name (FQDN) of the Cascadia Web Console (CWC) that manages the C25 and TCC devices, followed by port 3002. C25/TCC devices always report to the CWC on port 3002.
Example: `http://[CWC_IP_ADDRESS]:3002`

The frequency at which the device sends a heartbeat signal to the Cascadia Web Console to report its status and confirm connectivity. For best performance, keep the interval at 5 seconds.

Selects whether the device obtains its IP address automatically via DHCP or uses a manually configured Static IP. When Static IP is selected, the fields below become editable.

The static IP address and subnet mask for the device, expressed in CIDR notation (e.g., 192.168.0.9/24, where /24 denotes the subnet prefix length).

The IP address of the router or gateway.

The IP address of the DNS server the device uses to resolve hostnames. Required if the Backend URI is specified as an FQDN rather than an IP address.

Controls the type and verbosity of diagnostic data the C25/TCC records. Higher verbosity and payload logging aid troubleshooting but increase log volume, so these are typically enabled only when actively diagnosing an issue.

Note: If the interface does not display user-configurable fields for IP assignment, the C25 firmware must be updated to the latest version. (see page 26)



CASCADIA WEB CONSOLE

Dashboard

The dashboard is the default page for the web console.
When a C25 base is connected to the network, it will show up in the dashboard table.

(See following page for definitions)

1 Location of Base User Defined

2 Product Model Number

3 Base Name User Defined

4 Serial Number of Base

5 Base Status

6 Call Status

7 Mounting Type

8 MAC Address of Base

9 IP Address of Base

10 Date & Time

11 Settings

12 Remove Base

Lightspeed

User: Admin, Role: Administrator

Sign Out

Dashboard

Maps

Logs

Firmware

Programming

SIP Calling

LDAP

Location	Product	Base Name	Serial Number	Base Status	Call Status	Mounting	MAC Address	IP Address	Date & Time	Remove
Building A	Cascadia C25	Room 212	02C25BS2605011...	Disconnected	Idle	None	52:81:CC:12:60:C1	10.1.100.159	6/24/2026, 2:28:43 PM PDT	
Production -...	Cascadia C25	Production -...	02C25AS2505004...	Disconnected	Idle	None	C8:EE:D7:01:96:AD	10.1.100.106	6/24/2026, 2:28:43 PM PDT	
101	Cascadia C25	101	02C25AS2350001...	Disconnected	Idle	None	F2:B7:14:F6:BB:54	10.1.100.182	6/25/2026, 10:55:28 AM PDT	
(Test) Produ...	Cascadia C25	Demo 2	02C25AS2420000...	Ready	Idle	Topcat Cas...	6A:40:9C:61:EE:18	10.1.100.198	6/26/2026, 3:41:31 PM PDT	
	Cascadia C25		02C25BS2441000...	Ready	Idle	None	C8:EE:D7:01:8A:E1	10.1.100.114	6/26/2026, 3:41:29 PM PDT	
Lab Bench	Cascadia C25	1002	02C25ZS2343001...	Ready	Idle	None	B2:E1:04:92:6A:FD	10.1.100.175	6/26/2026, 3:41:30 PM PDT	

Export dashboard to CSV

Lightspeed School

NAVIGATION

13 Export dashboard to CSV

14 School Name User Defined



Dashboard Definitions

1. **Location:** Alphanumeric user defined location of the base. New bases on the network will have no location data.
2. **Product:** Product model number.
3. **Base Name:** Alphanumeric user defined name of the base. New bases on the network will have no name data. If left blank this field will default to the location data.
4. **Serial Number:** Serial number of base.
5. **Base Status:** Current status of the base.
 - **Disconnected:** Base has missed three network health checks and can no longer be found on the network.
 - **Emergency/Emergency Nearby:** If an emergency alert is triggered from a base on the network with a paired mic, the status of that base will change to Emergency. If the alert comes from a non-paired mic, the status will change to Emergency Nearby.
 - **Help Requested/Help Requested Nearby:** If a non-emergency alert is triggered from a base on the network with a paired mic, the status of that base will change to Help Requested. If the alert comes from a non-paired mic, the status will change to Help Requested Nearby.
 - **Idle:** Base is in full power mode and has passed a network health check.
6. **Call Status:** Current call status of the base.
 - **Idle:** No call currently being made.
 - **Ringin**g: Call in progress.
 - **Busy:** Destination phone not available.
 - **Connected:** Call connected and in progress.
 - **Failed:** Call not able to be initiated for unknown reason.
 - **Disconnected:** Base status is Disconnected.
7. **Mounting Type:** Indicates if base is installed inside of a Topcat Cascadia ceiling enclosure.
8. **MAC Address:** MAC address of base.
9. **IP Address:** IP Address assigned to base.
10. **Date & Time:** Timestamp of the last known good network health check for a base. Health checks are performed every 5 seconds and the timestamp will flash green.
11. **Settings:** Settings menu used to Update software, Change admin password, or enable HTTPS between web console and bases.
12. **Remove:** Remove a base from the dashboard. Only available for disconnected bases.
13. **Export Dashboard:** Export all information in dashboard to a CSV file.
14. **School Name:** User defined.



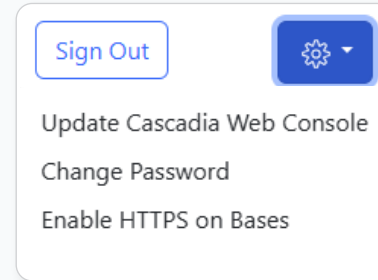
Settings Options

Update Cascadia Web Console: Checks for and installs available updates to the Cascadia Web Console software. This function requires an active internet connection. Release notes for the update are also available on this page.

Change Password: Allows the user to update the login password for the Cascadia Web Console. Updating the password will generate a new Recovery Code for use with the Forgot Password process.

Enable HTTPS on Bases: By default, the Cascadia system communicates over HTTPS between the bases and the Cascadia Web Console. This option enables secure HTTPS communication.

Note: After toggling this feature on or off, a propagation period of up to 30 minutes may be required for changes to take effect.





Base Details: Status

NOTE: Double clicking on a base in the dashboard brings up a details page for that base.

Name: Field to enter name for the base.

Location: Field to enter location of the base. Required field for alerts.

Backend: IP address that base is reporting status to.

Dashboard: IP address that base is reporting status to.
Changing this field may disconnect the base from the console.

Network: State of network connectivity.

Emergency: State of emergency alert.

Help Request: State of Help Request.

SIP Call: State of call.

Low Power Mode: State of power mode.

SafetyMute: Indicator for system mute due to PageFirst, Relay Input, or Input Priority.

Mounting: Indicates if base is installed inside of a Topcat Cascadia ceiling enclosure.

Power Source: Power supply for the base.

Serial Number: Serial number of the base.

MAC Address: MAC address of the base.

IP Address: IP address assigned to the base.

DECT ID: DECT ID assigned to the base.

C25 App Version: Processor firmware version for base.

C25 FW Version: DECT/DSP firmware for base.

C25 OS Version: Operating System version for the base.

C25 HW Version: Hardware version for the base.

Runtime: Total time base has been on the network.

Last Restart: Timestamp of last time base was powered down and restarted.

Last Update: Timestamp of the last known good network health check for a base.

Status

Name:	Demo 2
Location:	(Test) Product Table 4
Backend:	http://cascadia-console:3002
Item	Status
Dashboard:	Ready
Network:	Active
Emergency:	Inactive
Help Request:	Inactive
SIP Call:	Idle
Low Power Mode:	Inactive
SafetyMute:	Inactive
Mounting:	Topcat Cascadia
Power Source:	PoE+ 802.3at
Serial Number:	02C25AS242000031
MAC Address:	6A:40:9C:61:EE:18
IP Address:	10.1.100.198
DECT ID:	03C1A01E30
C25 App Version:	7.1.12
C25 FW Version:	7.1.17
C25 OS Version:	7.1.05
C25 HW Version:	R04
Runtime:	1369 hours
Last Restart:	10/14/2025, 11:47:47 AM PDT
Last Update:	12/10/2025, 11:49:29 AM PST



Base Details: Audio Settings

The audio settings for the base can be adjusted from either the front panel on the base or the Audio portion of the Base Details page. Click the edit icon to adjust the audio settings.

Audio			
Input Volume	Output Volume	Tone	Edit
70	40	55	

Edit Base Audio

Input Volume

70

Output Volume

40

Tone

55

Cancel

Ok

When using the PageFirst sensor, adjusting the sensitivity of the system can be done in the Base Details page. Click the edit icon to adjust the sensitivity level. Setting the sensitivity to 0 will disable this feature.

PageFirst Sensitivity	
PageFirst Sensitivity	Edit
14	

Edit PagingFirst Sensitivity

Sensitivity Level

14

Cancel

Ok



Base Details: Status History

The base details page includes a Status History that shows displays the last eight events associated with the base.

All events for all bases are saved in a global log file that can be exported using the Logs menu button.

Status History	
Date & Time ↓	Event
9/15/2023, 4:00:47 PM PDT	update page first sensitivity request
9/15/2023, 3:57:05 PM PDT	audio settings change
9/15/2023, 3:57:03 PM PDT	audio settings change
9/15/2023, 3:32:49 PM PDT	MIC Connected change
9/15/2023, 3:32:34 PM PDT	MIC Connected change
9/15/2023, 3:30:43 PM PDT	audio settings change

Double clicking an event will bring up the Log Entry Details. The log data is saved in a JSON format.

Log Entry Details

```
{  "serialNumber": "02RBNZ5231800074",  "origin": "basestation",  "event": "audio settings change",  "status": {    "InputVolume": 5,    "OutputVolume": 100,    "Tone": 50,    "Mute": false  },  "timeStamp": 1694818625194,  "dateTime": "9/15/2023, 3:57:05 PM PDT"}
```



Facility Maps

The Cascadia Web Console has a map feature that can be set up to give a visual representation of the Base Status from the Dashboard. If alerts have been set up in the Cascadia Web Console, the status of the alerts will also be shown on the map.

It is recommended that a new map be created for every level of the building to make each map easier to view. The first map created will be the default map that comes up when browsing to the Maps web page.

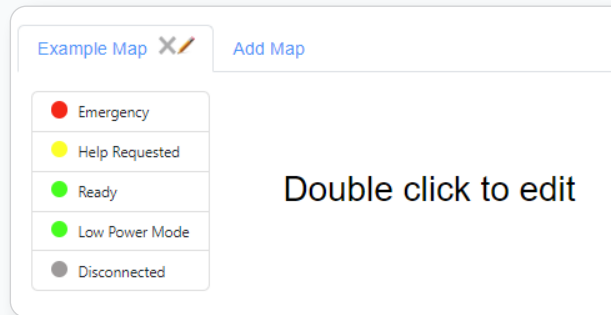
Click the **Maps** menu item to access the Maps web page.

The screenshot displays the Lightspeed Cascadia Web Console interface. At the top, the Lightspeed logo is visible on the left, and the user information "User: Admin, Role: Administrator" is on the right. Below the logo, a sidebar contains navigation buttons: Dashboard, Maps, Logs, Firmware, Programming, SIP Calling, and LDAP. The "Maps" button is highlighted with a blue line and an arrow pointing to it, with the text "Click the **Maps** menu item to access the Maps web page." next to it. To the right of the sidebar, there are buttons for "Example Map" and "Add Map". The main area of the console shows a floor plan map of a building. The map includes rooms labeled "CAFETERIA", "KITCHEN", and "BOOK ROOM". Numerous green circles are placed on the map, representing the status of devices. A legend on the left side of the map area defines the status colors: Emergency (red), Help Requested (yellow), Ready (green), Low Power Mode (light green), and Disconnected (grey). The map shows a complex layout with multiple rooms and corridors, with green circles indicating the status of various devices throughout the facility.

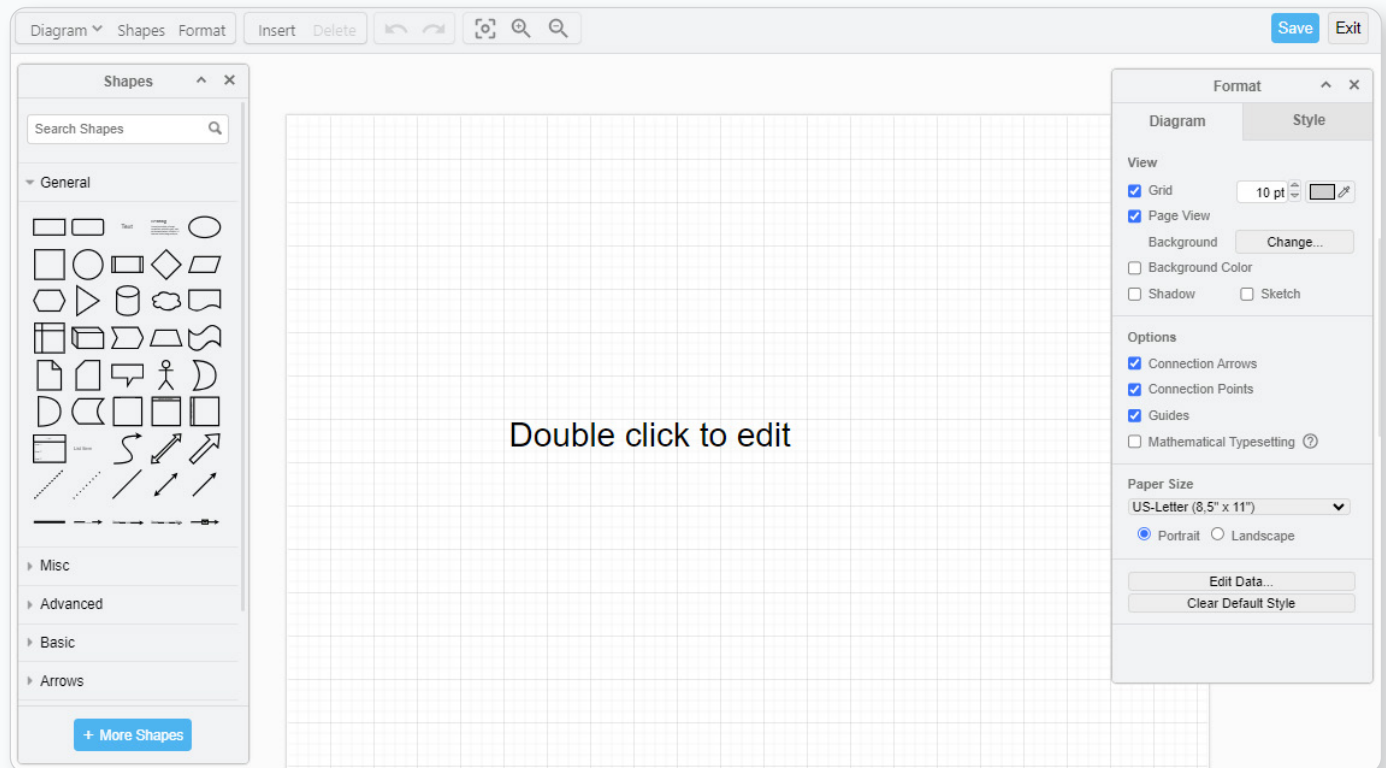


Add a New Map

Click the **“Add Map”** tab to add a new map and enter the map name.



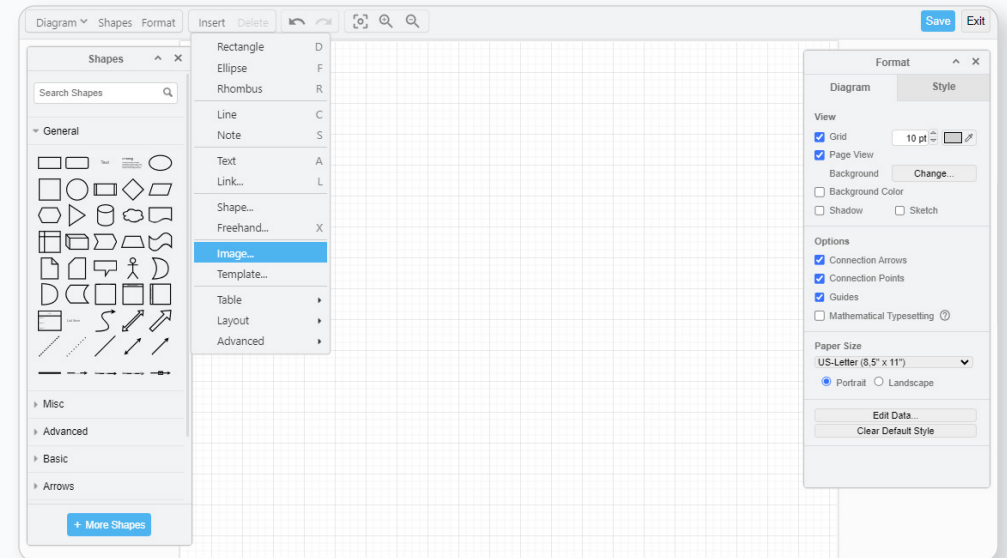
A legend of the various Base Status modes will be automatically created. Double click the words **“Double click to edit”** to open the map editor.





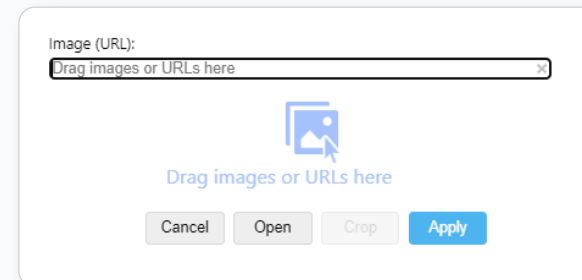
Build the Base Map

1. In the Map Editor, navigate to: Insert > Image.

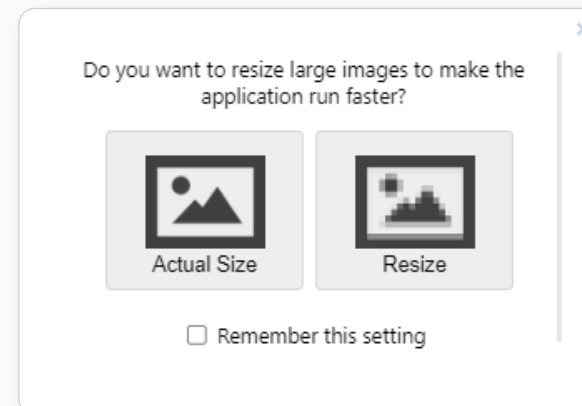


2. This opens a dialog box to import a image of your facility map.

- Images can be dragged and dropped into this dialog box or use the Open button to open the File Explorer.
- Image files can be .jpg, .png, or .gif formats, but the file size needs to be below 700KB.



3. When asked about resizing, always chose the “Actual Size” option.

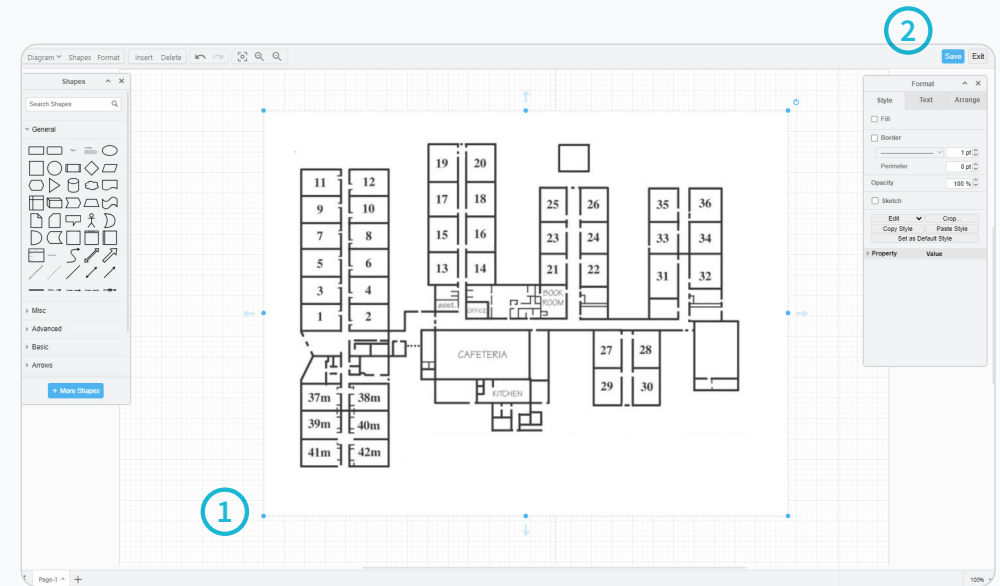




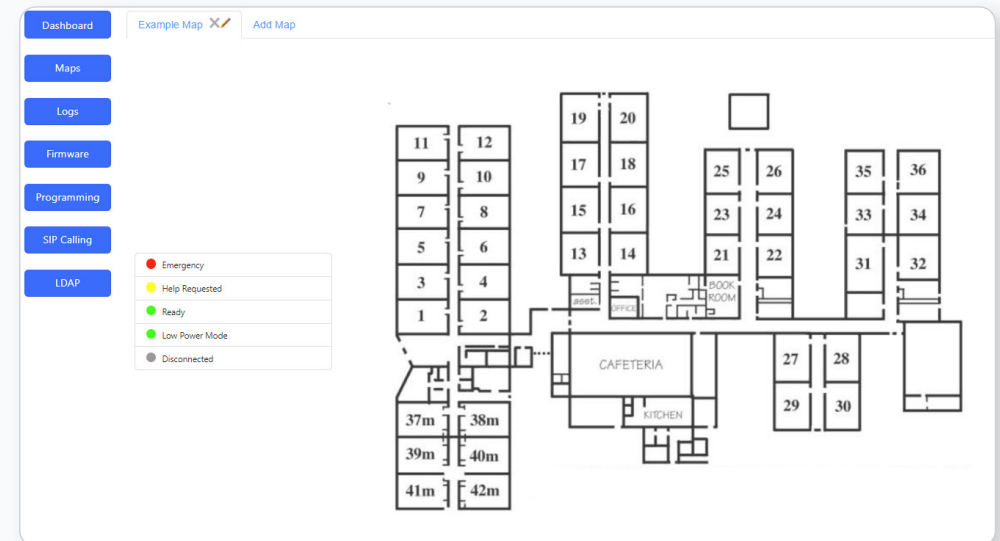
Adjust the Base Map

4. After the image has been imported, it may need to be adjusted so that it displays correctly in the web page.

- Click on the image and drag it to the center of the screen, if necessary.
- In the editor, click on the map image and use the blue edge handles (1) to resize the map
- Clicking the “Save” button (2) will return the browser to the Maps webpage.

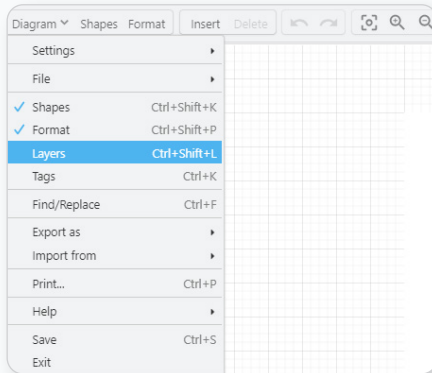


- Verify that the map looks acceptable on the Maps webpage. If not, double click on the map to open the map editor again.
- In the editor, click on the map image and use the blue edge button to resize the map and repeat the process to verify it looks acceptable on the Maps webpage.
- When the map looks acceptable on the Maps webpage, bring up the map editor to start the process of adding C25 base icons to the map.

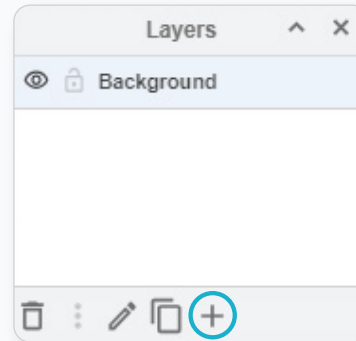




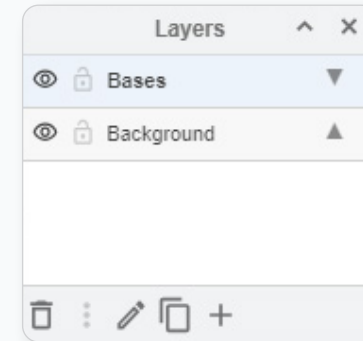
Add Base Icons to the Map



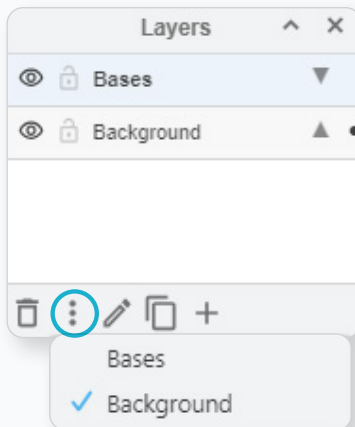
5. Open the Layers control box by navigating to: Dialog > Layers



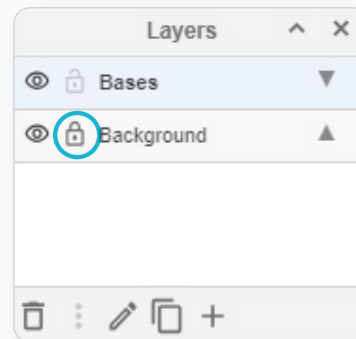
6. In the Layers control box, click the + to add a new layer.
- Double click on the “Untitled Layer” and rename it to “Bases”.



7. Click on the map image to select it and then click on the three vertical dots in the Layer control box to verify that the image is in the background layer.
- Clicking the one of the layer names will move the map image to that layer.
 - Leave the map image in the Background layer.



8. Click on the Bases layer to make it the active layer. This will ensure that the base icons are created on the unlocked Bases layer.



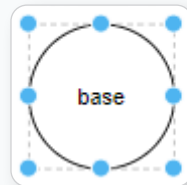
9. Click the lock icon for the Background to lock the layer. This will make it easier to add the base icons to the map. Without this step, it is easy to accidentally select the map instead of the base icons.



Add Base Icons to the Map (con't)

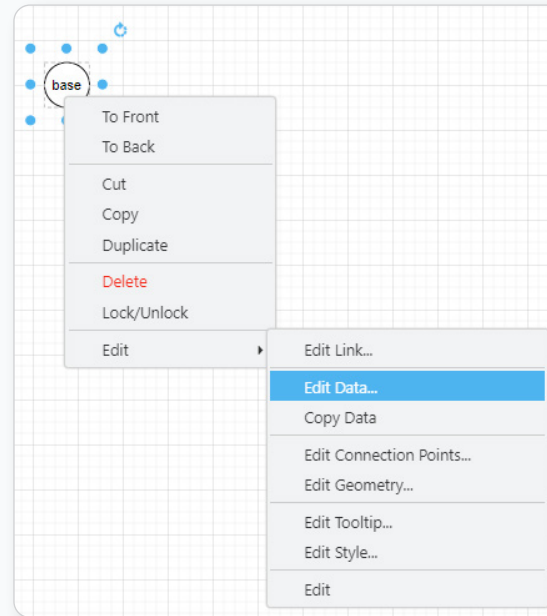


10. Click on the Circle icon in the Shapes control box to add a circle icon to the map.

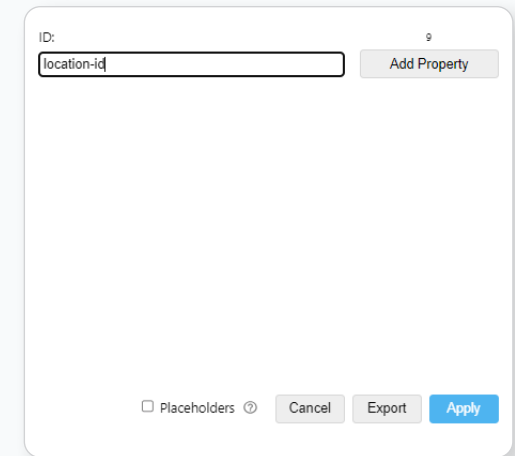


11. Double click on the center of the circle to get a blinking text icon if it isn't already blinking.

- Type in the text "base" inside of the circle.
- Click outside the circle to verify the text change.
- This creates the base icon.



12. Right click on the circle and select "Edit Data..."



13. Enter "location-id" into the text box and click the Add Property button.



Add Base Icons to the Map (con't)

ID: 9

location-id: Room 5

Enter Property Name

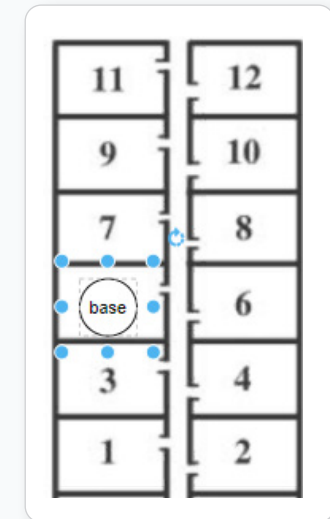
Add Property

☐ Placeholders ⓘ Cancel Export Apply

14. Enter the Base Location information into the location-id text box.
- When done, click the Apply button.

Status	
Name:	Math 2
Location:	Room 5
Item	Status
Dashboard:	Low Power Mode
Network:	Active
Emergency:	Inactive
Help Request:	Inactive
SIP Call:	Idle
Low Power Mode:	Active
SafetyMute:	Inactive
Power Source:	PoE+ 802.3at
Serial Number:	02C2525234300079
MAC Address:	5E:CS:71:45:2A:7F
IP Address:	10.1.100.166
DECT ID:	09C1A003D8
C25 App Version:	7.1.00
C25 FW Version:	7.1.00
C25 OS Version:	7.1.00
C25 HW Version:	R04
Runtime:	356 hours
Last Restart:	2/20/2024, 1:34:31 PM PST
Last Update:	3/6/2024, 10:02:24 AM PST

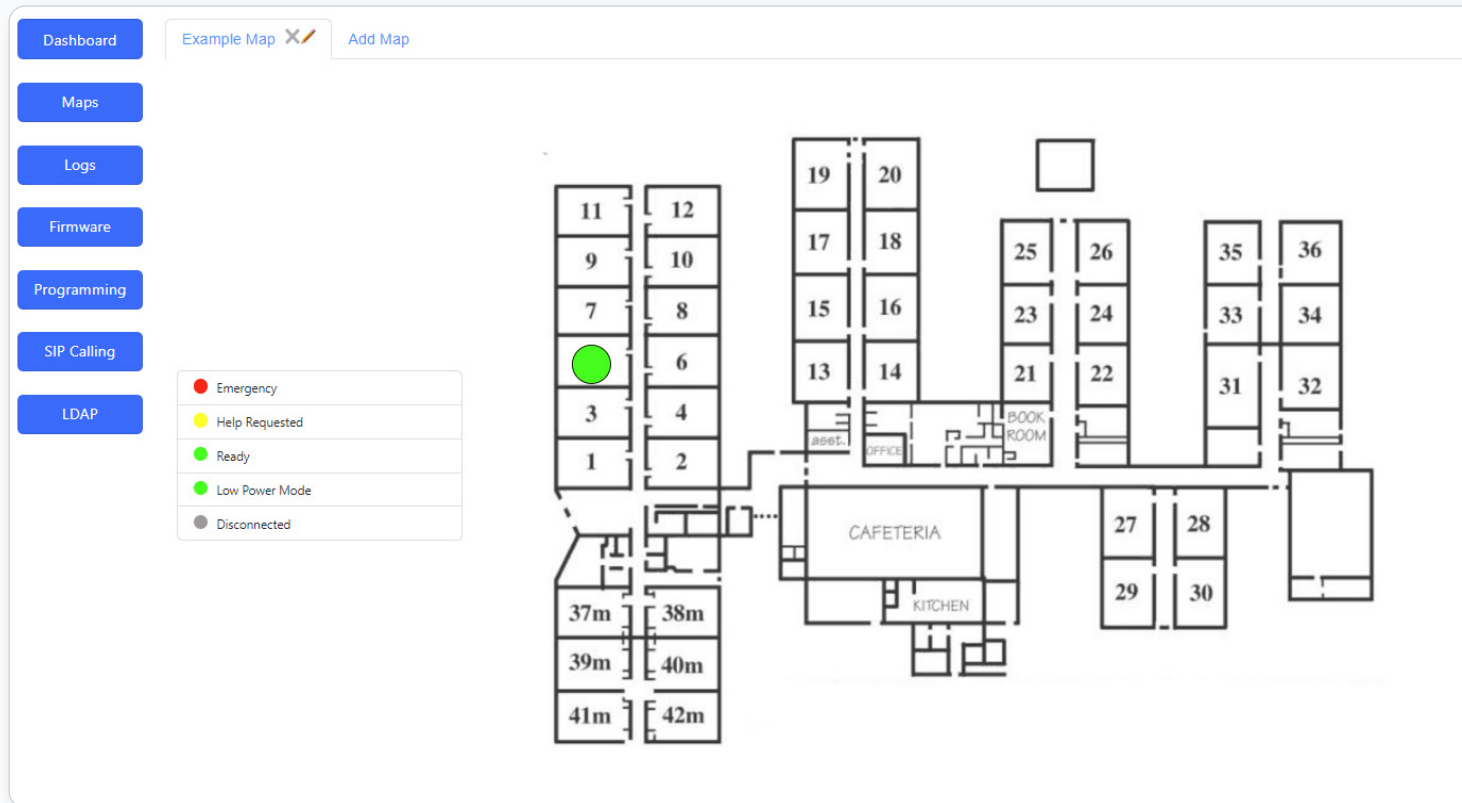
The Base Location is the user defined text that was entered on the Base Details page, accessed through the main dashboard.



15. Select the base icon and move it to the room that the base is installed in.
- Use one of the blue shape indicators to change the size of the circle to fit the room.



Add Base Icons to the Map (con't)

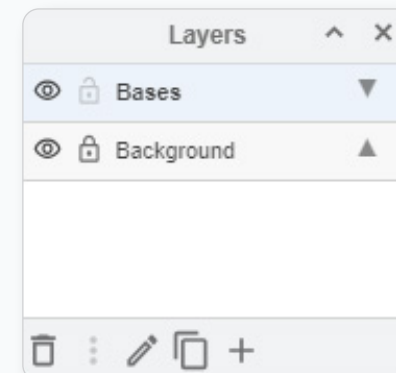


16. Click the Save button to exit the map editor and verify that the icon is working.

- The base icon should show up with a color that matches the Base Status in the dashboard.

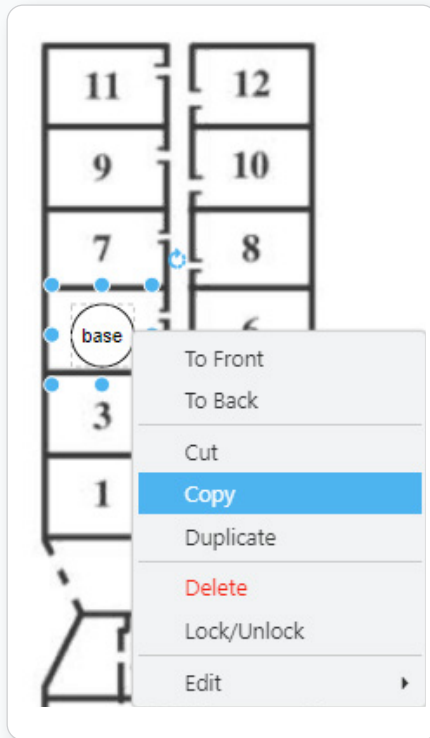
17. To add additional base icons, double click the map to open the map editor again.

18. Click on the Bases layer to ensure it is the active layer.



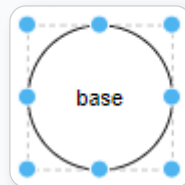


Add Additional Base Icons



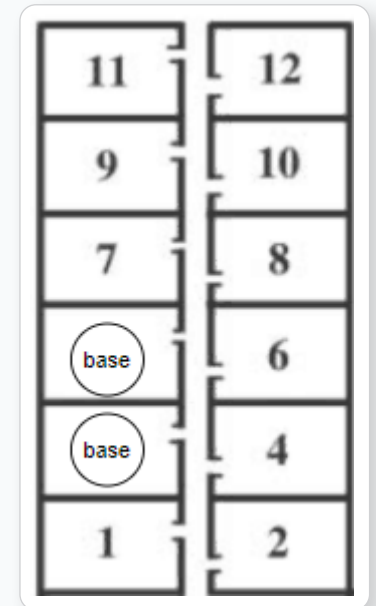
19. Now that functionality of the base icon has been verified, copy and paste the icon to make a second icon.

- Right-clicking on the base icon, or the CTRL+C and CTRL+P shortcuts, can be used to copy and paste.



20. Right-click on the new base icon and select "Edit Data..." again.

21. Enter the location-id of the new base and click apply.



22. Move the new base icon to the room that the base is installed in.

23. Repeat this process for every base that is added to the network.



Logs

Logs for all the bases on the network are saved as a system log. As a default, the settings for events to be logged are set to the maximum. This system log can be downloaded by clicking the “Download System Logs” button.

LOG LEVEL: Chose the level of detail included in log events.

LOG HTTP TRAFFIC: Log network traffic associated with events.

LOG DXC TRAFFIC: Log wireless traffic associated with events.

LOG SIP TRAFFIC: Log SIP call information associated with events.

Basestation Log Configuration

Log Level

Verbose ▾

Log HTTP Traffic

True ▾

Log DCX Traffic

True ▾

Log SIP Traffic

True ▾

Ok

System Logs

Download System Logs



Firmware: Download

Firmware updates can be downloaded directly to the Cascadia Web Console using an internet connection or can be manually loaded. Firmware files for the C25, Clearmike, Sharemike, and Media Connector are included in a firmware bundle. If the downloaded bundle includes Release Notes, click on the associated icon to view them.

Cascadia Available Updates

[Login to Cascadia Downloads](#)

Login to download all available updates from [downloads.light-speed-tek.com](#)

Manually Import Bundle

Browse...

No file selected.

Upload

Choose a file before pressing the Upload button

Select Firmware Bundle

Bundle Name ↓	C25 OS	C25 APP	C25 FW	CMT	MCT	SMT	MCN	SMN	Release Notes	Remove
☐ 2026_06_15_Cascadia_Beta_Bundle	7.1.10	7.1.20	7.1.22	7.1.14	7.1.01	7.1.00	6.1.07	6.1.08		
☐ 2026_06_08_Cascadia_Beta_Bundle	7.1.10	7.1.19	7.1.22	7.1.14	7.1.01	7.1.00	6.1.07	6.1.08		



Firmware: Update

Applying a firmware bundle update to a base will also update all paired devices. Bases can be updated individually or in bulk using the check box. The devices that will be updated are highlighted in yellow.

Select Firmware Bundle

Bundle Name ↓	C25 OS	C25 APP	C25 FW	CMT	MCT	SMT	MCN	SMN	Release Notes	Remove
☒ 2026_06_15_Cascadia_Beta_Bundle	7.1.10	7.1.20	7.1.22	7.1.14	7.1.01	7.1.00	6.1.07	6.1.08		
☐ 2026_06_08_Cascadia_Beta_Bundle	7.1.10	7.1.19	7.1.22	7.1.14	7.1.01	7.1.00	6.1.07	6.1.08		

Select One or More Bases

☐ Location	Product	Base Name	Serial Number	C25 OS	C25 APP	C25 FW	Paired Devices
☐ (Test) Product Table 4	Cascadia C25	Demo 2	02C25AS242000031	7.1.08	0.0.0	7.1.21	CMT 1 : 7.1.10 CMT 2 : 7.1.10 MCT : 7.0.09
☐	Cascadia C25		02C25BS244100002	7.1.10	7.1.20	7.1.22	CMT 1 : 7.1.10 SMT 2 : 7.1.00 MCT : 7.0.04
☐ Lab Bench	Cascadia C25	1002	02C25ZS234300127	7.1.10	7.1.20	7.1.22	CMT 1 : 7.1.10 SMT 2 : 7.1.00 MCT : 7.0.04



Apply Updates or Reboot Bases

Use the base list to select one or more bases from the list. Use the Apply Updates button to load the selected firmware bundle onto the selected bases. Alternatively, use the Reboot Bases button to remotely reboot the selected bases.

Select One or More Bases

 Location	Product	Base Name	Serial Number	C25 OS	C25 APP	C25 FW	Paired Devices
☒ (Test) Product Table 4	Cascadia C25	Demo 2	02C25AS242000031	7.1.08	0.0.0	7.1.21	CMT 1 : 7.1.10 CMT 2 : 7.1.10 MCT : 7.0.09
☐	Cascadia C25		02C25BS244100002	7.1.10	7.1.20	7.1.22	CMT 1 : 7.1.10 SMT 2 : 7.1.00 MCT : 7.0.04
☐ Lab Bench	Cascadia C25	1002	02C25ZS234300127	7.1.10	7.1.20	7.1.22	CMT 1 : 7.1.10 SMT 2 : 7.1.00 MCT : 7.0.04

Apply Bundle

Pressing the Apply Updates button will push the update packages to the selected bases.

Bundle to be Applied: 2026_06_15_Cascadia_Beta_Bundle
Number of Bases to Apply to: 1

Apply Updates

Reboot Bases

Pressing the Reboot Bases button will reboot the selected bases.

Bases to be Rebooted: 1 selected
Number of Bases to Reboot: 1

Reboot Bases



Programming: Stand Alone

The programming web page has options to pick an integration partner and to program the buttons on the paired Clearmike.

Select an Integration Partner

The **Standalone** selection can be used for generic integrations if a building is equipped with an alert notification system.

The **Alert Button** can be programmed to control the contact closure on the rear panel of the C25, which external systems can use to perform a prescribed action, such as notifying the appropriate parties of a classroom alert.

Alternatively, the **Alert Button** can be programmed to activate a contact closure followed by a SIP call to control both functions with a single button press.

Alert Timeout Value

The Alert Timeout Value controls how long alerts are displayed in the Dashboard. This is a Cascadia Web Console specific setting and does not control other third-party systems. Value can be set between 0 and 3600 seconds.

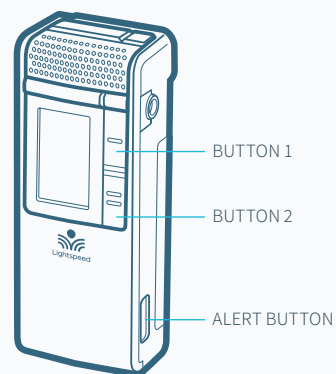
Program Buttons on the Clearmike

Button 1 or **Button 2** can be programmed to initiate a SIP call, if that feature is set up using the SIP Calling web page.

Disable Buttons: All buttons can be disabled by selecting the None option.

Select Integration Partner

Standalone ▾



Button 1

None ▾

None
SIP call

Button 2

None ▾

None
Contact closure
Contact closure with SIP call

Alert Button

None ▾

Alert Timeout Value



600

Ok



Programming: Integration Partners

OPTIONS OTHER THAN STANDALONE

For options other than Standalone, the integration is handled through the network.

Cascadia Connect is a pre-built API framework offered by Lightspeed to facilitate additional partner integrations.

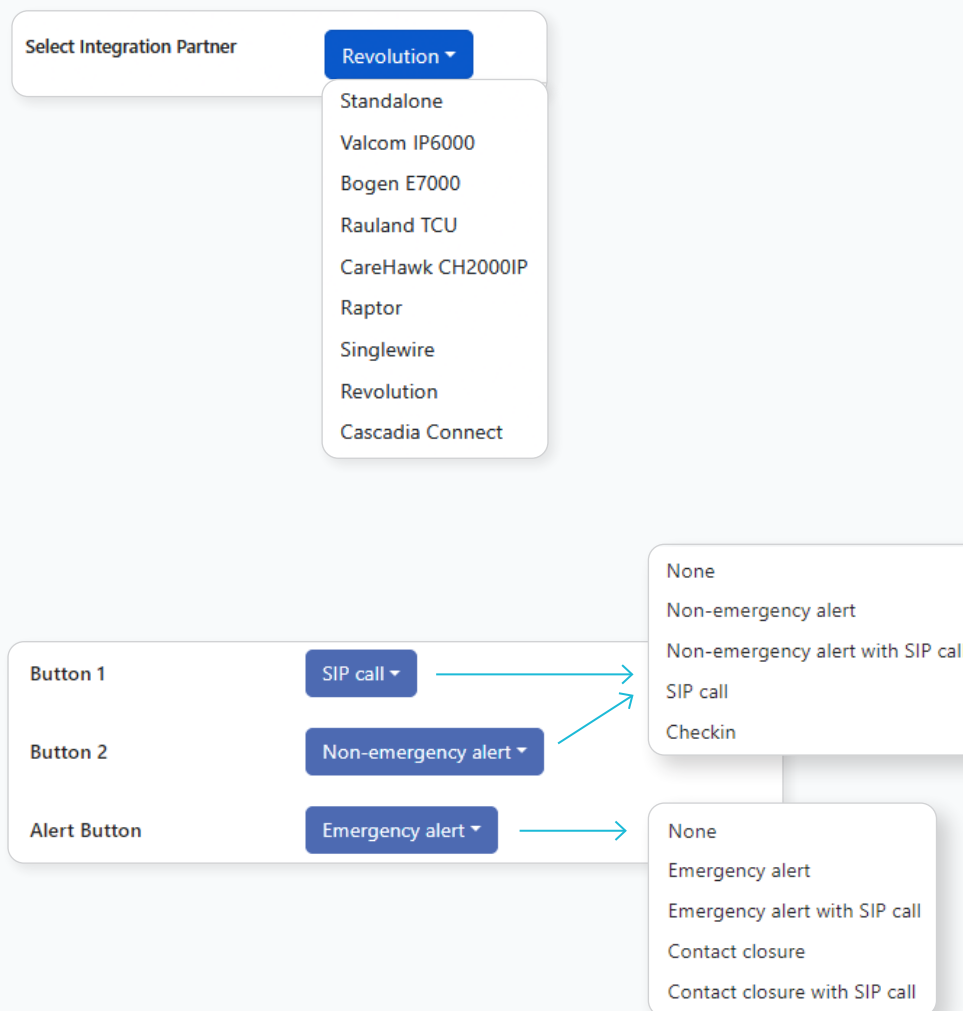
PROGRAM BUTTONS ON THE CLEARMIKE

The **Button Programming Options** control what is displayed on the microphone screen and the commands sent over the network. The prescribed actions that are activated with the microphone command signals are setup, customized, and controlled by the integration partner system.

Button 1 and **Button 2** have the same programming options. The options include a Help Request, SIP call, and Check-in commands. One option combines the Help Request and SIP call into a single button.

The **Alert Button** can be programmed to activate an Emergency Alert or the combined action of an Emergency Alert with a SIP call.

Disable buttons: All buttons can be disabled by selecting the None option.





SIP Calling

Use the SIP Calling web page to integrate with a school's phone system to enable SIP calls. Follow the phone system instructions on how to register a third-party SIP device.

Base and Destination URI are formatted as sip:{extension}@{server} Example: sip:1001@10.1.100.90

Server address is formatted as {IP Address}:{Port} Example 10.1.100.90:5060

Double click on a base to edit the individual base SIP settings.

Global SIP Settings

Destination URI

URI

sip:1032@ciscopbx.bsd.edu

SIP address to call

Server

Server

ciscopbx.bsd.edu:5060

IP address of phone server

Register

False

Enables SIP registration with phone server, if needed

Protocol

TLS 1.2

Protocol type: TCP, UDP, TLS 1.2

SIP Proxy

False

Media Encryption

SRTP

Upload Certificate

Browse...

No file selected.

Upload

Client TLS certificate for SIP over TLS, if needed

Current Certificate: No File Uploaded

Save

Individual Base SIP Settings (Active Bases Only)

Base	Serial Number	Authorization ID	Location	Base URI	Password
C25-220	0000000000000111		Location-220		

Edit Base SIP Settings

Base URI

URI

sip:1001@10.1.100.80

SIP address of base

Password

Password

ijhioujh9ojrioed

Password required by phone system

Authorization ID

Authorization ID

Authorization

SIP Authentication username used when the device authenticates with the PBX

Save

Cancel



LDAP

Use the LDAP web page to integrate with a school's LDAP system.

Secure LDAP Setup

Server	IP/DNS Enter IP or DNS Name of Server	SERVER: IP address or hostname (FQDN) of the LDAP server.
Server Port	Port Enter Server Port	SERVER PORT: LDAP port on specified server (typically 389 for LDAP, 636 for LDAPS).
Admin DN	DN Enter Admin DN	ADMIN DN: Bind DN of LDAP Service Account.
Admin Password	Password Enter Admin Password	ADMIN PASSWORD: Bind Password for above LDAP Account entered above.
Search Base DN	DN Enter Search Base DN	SEARCH BASE DN: DN of the container where user accounts reside (e.g., an OU or domain root).
Attribute	Attribute Enter LDAP user attribute to search against	ATTRIBUTE: LDAP attribute matched against the user's login (e.g., uid, sAMAccountName, mail).
Role Attribute	Attribute lightspeedRole	ROLE ATTRIBUTE: LDAP attribute holding the user role value.
Required Role	Role admin	REQUIRED ROLE: Role value granting user access.
User Group	Group lightspeedAdmin	USER GROUP: LDAP group in which members are granted access.
Require Trusted Certificate	True	REQUIRE TRUSTED CERTIFICATE: When True, the LDAP server's TLS certificate must be valid, unexpired, and issued by a trusted CA; untrusted or self-signed certificates are refused.

Ok



Dedicated to Access for All

We strive to make a remarkable difference for teachers and students by creating Access to powerful in-the-moment insights to the learning process. Our audio and video solutions improve student engagement, enable teachers to activate small groups, and encourage collaboration.

11509 SW Herman Road

Tualatin, Oregon 97062

Toll Free: 800.732.8999

Phone: 503.684.5538

Fax: 503.684.3197

lightspeed-tek.com

