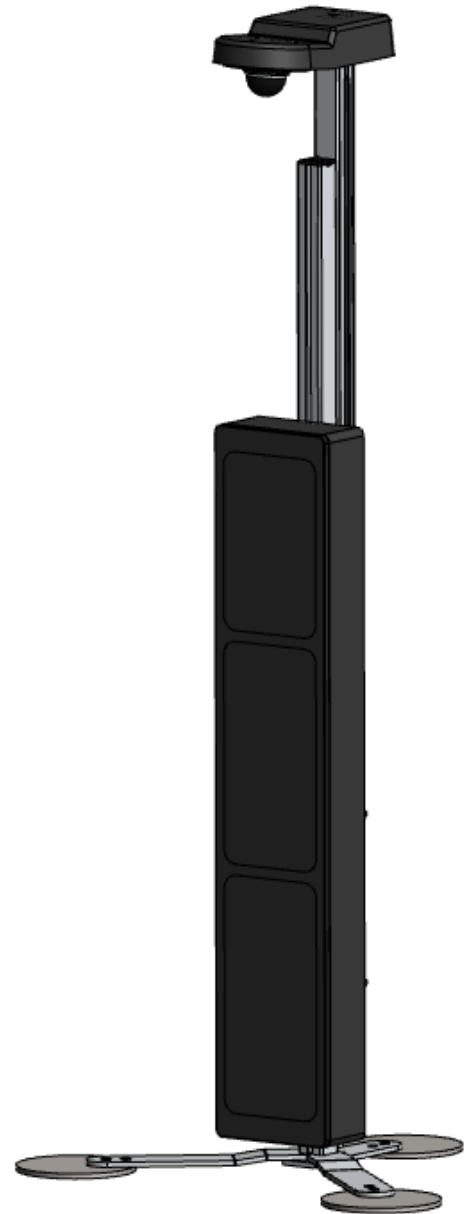


VIEWpath® Blend System

Quick Start Admin Manual

Classroom Blended Learning System



Welcome to VIEWpath and the Blend System by Audio Enhancement. VIEWpath & Blend combine to form a comprehensive all in one classroom audio and video system. This manual is intended to be a quick start admin manual to get your Blend Systems added and operating within the VIEWpath system. For a complete administration guide to the VIEWpath system, including LDAP/Active Director registration information, please see the complete VIEWpath/EPIC Administration Manual.

Your VIEWpath Server is pre-configured according to the network information that you provided our pre-programming team. The Blend Systems are all configured to request a DHCP address from your network when connected. You will need to make sure that the network ports that your Blend Systems are connecting to is on the same VLAN as the server.

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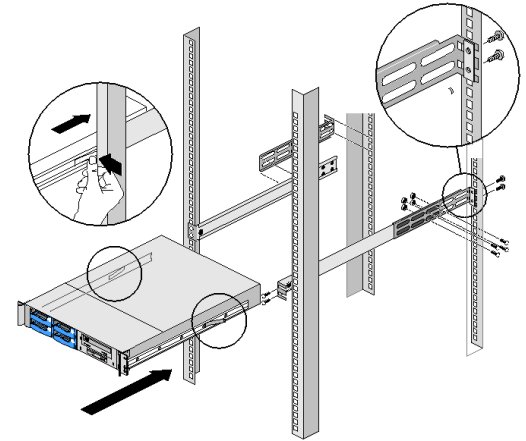
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Quick Start Guide – Please follow these initial steps

We want to help!! We have provided a basic framework in this section that will give you the best possible experience in getting your system up and running. Please allow us the opportunity to assist you in getting started with your VIEWpath & Blend Systems.

Step 1 – Install your Server

If you have received a physical server as part of your system, the first step will be to install your server into a server rack and get it connected to power and your network. If you are using a virtual server, you should have previously worked with the Audio Enhancement implementations team to build your virtual server.



Step 2 – Log into your server

Open up your Chrome browser on your computer, and use the default admin credentials to log into the server:

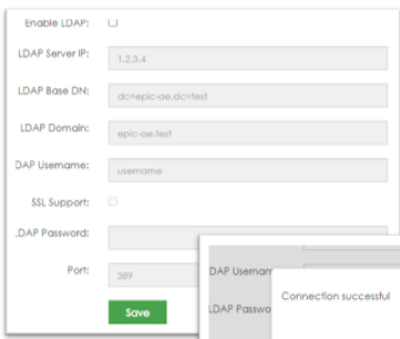


Once you have successfully logged into your server, and are seeing the main admin screen, please stop and call the Audio Enhancement Tech Support line at 800-932-3578. We are anxious to help you get up and running successfully in the least time possible.

Step 3 – LDAP Configuration

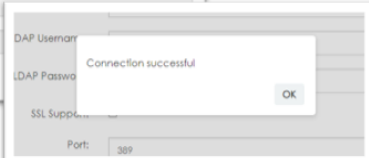
(For detailed directions – please see the section in this manual called ‘LDAP – Managing Your Teacher Users’)

Settings > System Settings > LDAP



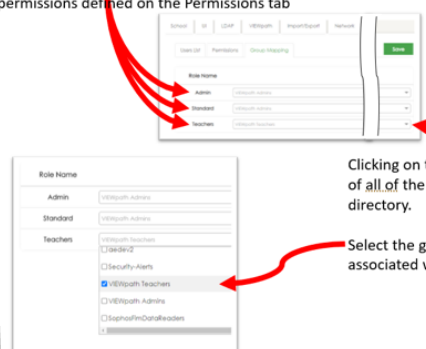
Enter your LDAP Information

Click 'Save'



Settings > System Settings > Roles > Group Mapping

Each of these roles is associated with a set of permissions defined on the Permissions tab



Clicking on the arrow will drop down a list of all of the available groups in your LDAP directory.

Select the group(s) that you would like associated with each role

Step 4 – Adding your Blend Systems to VIEWpath

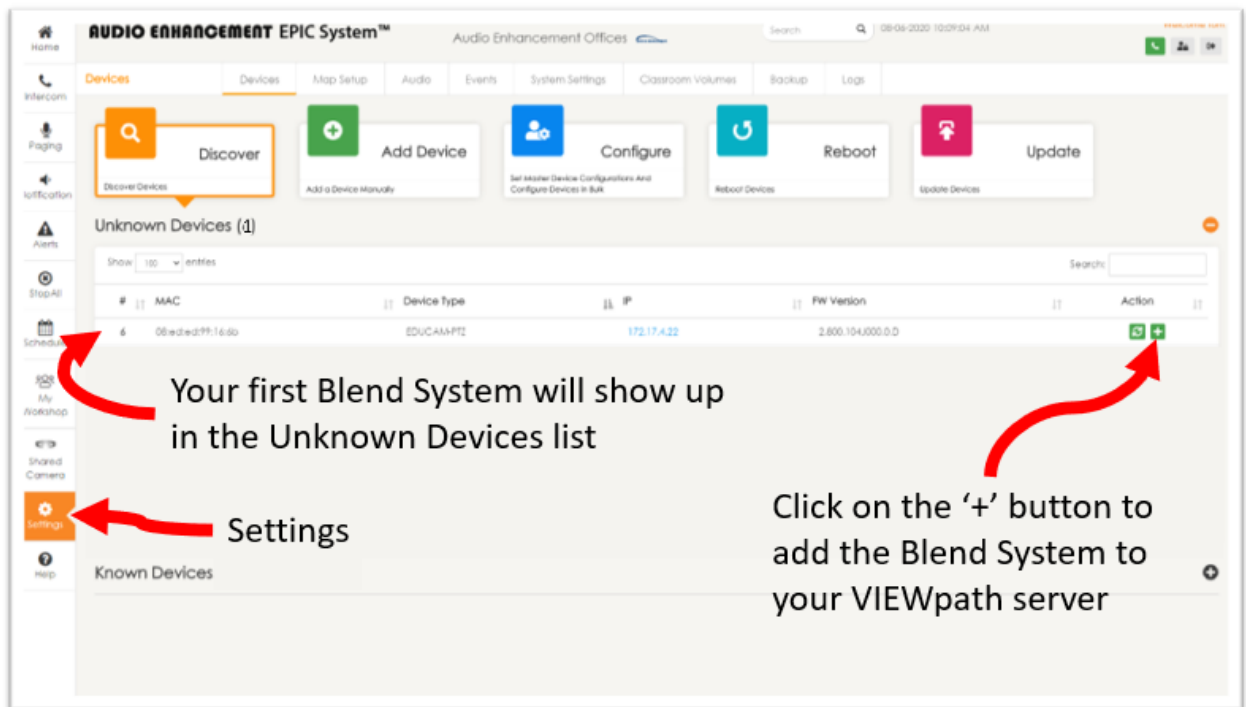
Your Blend EDUCAMPTZ camera is configured to receive an IP Address from your DHCP server. Each network port that you would like to use with your Blend Systems needs to be configured to be on the same VLAN as the server, for VIEWpath to automatically discover the Blend Systems. (If you are using a VLAN configuration that will require routing between the server VLAN and the VLAN the Blend is plugged into please call Audio Enhancement Support for assistance)

This process is one method for identifying and assigning your Blend Systems within the VIEWpath System. There are several ways of accomplishing this same outcome, this is just one option.

Connect Blend Systems to the network

Because the Blend Systems are designed to be portable, it is easiest to plug one system in at a time.

- Make sure you are logged in as an Admin in the VIEWpath system
- Plug your first Blend System into a Network Port that is assigned to the same VLAN as the Server
- Select Settings from the left-hand tool bar



Discover



Add Device

Configure

Reboot

Update

Unknown Devices (1)

#	MAC	Device Type	IP	Firmware Version	Action
6	08:00:27:16:80	EDUCAMPT2	172.17.4.22	2.800.104.000.0.0	 

Settings

Known Devices

Your first Blend System will show up in the Unknown Devices list

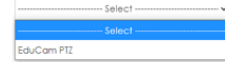
Click on the '+' button to add the Blend System to your VIEWpath server

- Configure the Blend System



Enter a Device Name. For your Blend Systems, this should also be the name that you physically mark the unit with.


Select EduCam PTZ from the drop-down menu



The IP Address that was assigned by your DHCP server will be displayed.

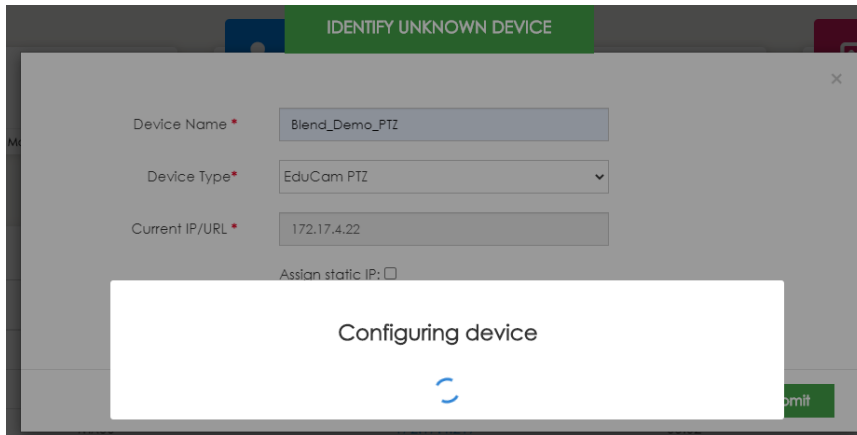
This is an easy place to Copy and Paste the MAC Addresses and associated IP Addresses into a spread sheet so that you can make DHCP reservations.

The VIEWpath Server uses the IP address of the Blend System to identify each system. By making a DHCP reservation in your DHCP server, it will ensure that when the Blend Systems are moved from one classroom to another, the VIEWpath System can still identify each system.



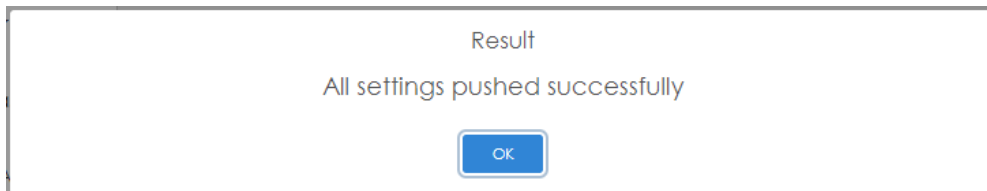
Blend System	MAC Address	Assigned IP Address - to be reserved in DHCP Table
Blend System #1	08:ed:ed:99:16:6b	172.17.4.22
Blend System #2		
Blend System #3		
Blend System #4		
Blend System #5		
Blend System #6		
Blend System #7		
Blend System #8		
Blend System #9		
Blend System #10		
Blend System #11		
Blend System #12		
Blend System #13		
Blend System #14		
Blend System #15		
Blend System #16		

- Press Submit

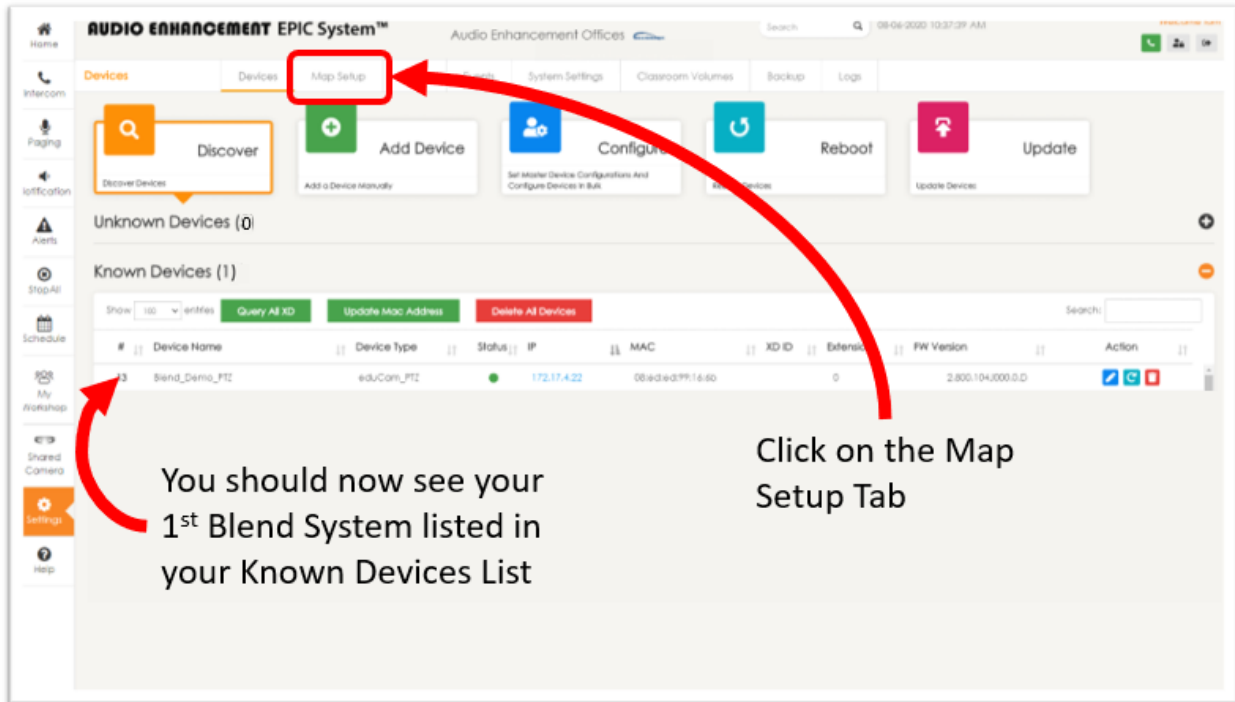


Hint: You will find it useful to name the camera the same name as the virtual room you are going to assign this camera to in the next step.

You will also want to physically label the units as you work through this process so that the Device Name, the Virtual Room Name, and the Physical Label on the device itself all match



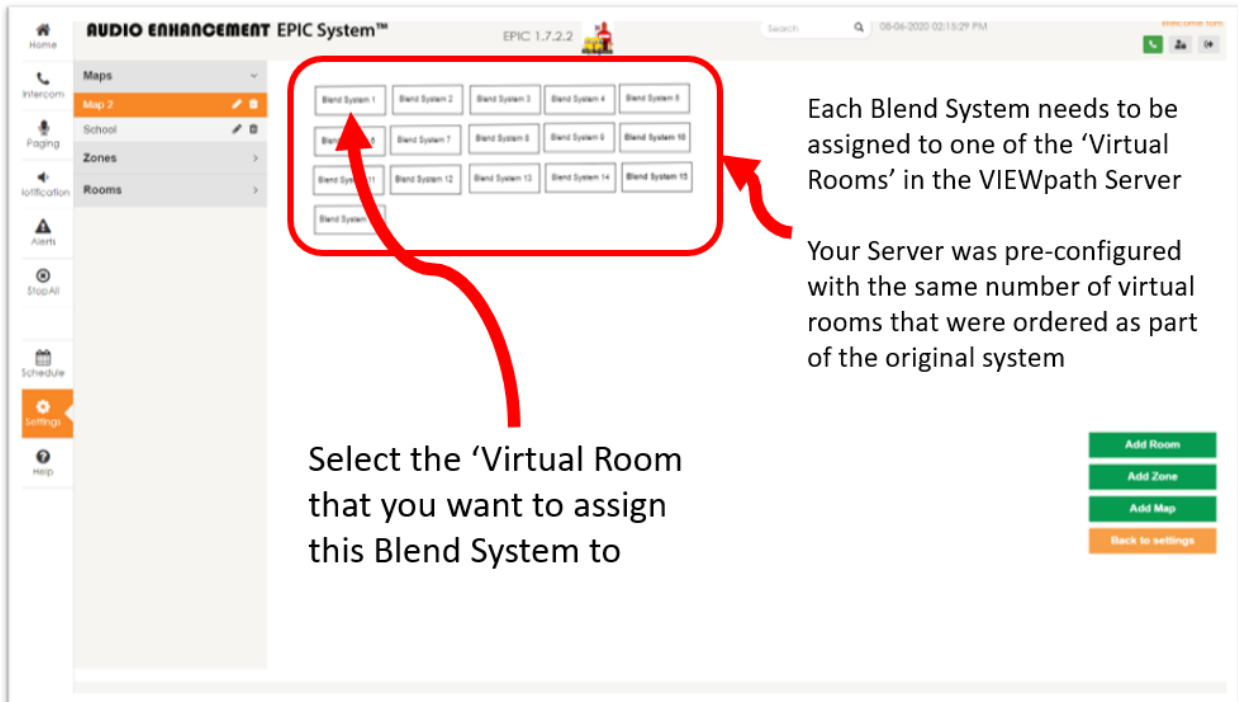
- Add the Blend System to the Map



The screenshot shows the 'AUDIO ENHANCEMENT EPIC System™' interface. The 'Map Setup' tab is highlighted with a red box and an arrow pointing to it. Below the 'Map Setup' tab, there are buttons for 'Discover', 'Add Device', 'Configure', 'Reboot', and 'Update'. The 'Known Devices' list shows one device: 'Blend_Demo_PTZ' with a status of 'Online' and an IP address of '172.17.4.22'. A red arrow points from the 'Map Setup' tab to the 'Known Devices' list.

You should now see your 1st Blend System listed in your Known Devices List

Click on the Map Setup Tab

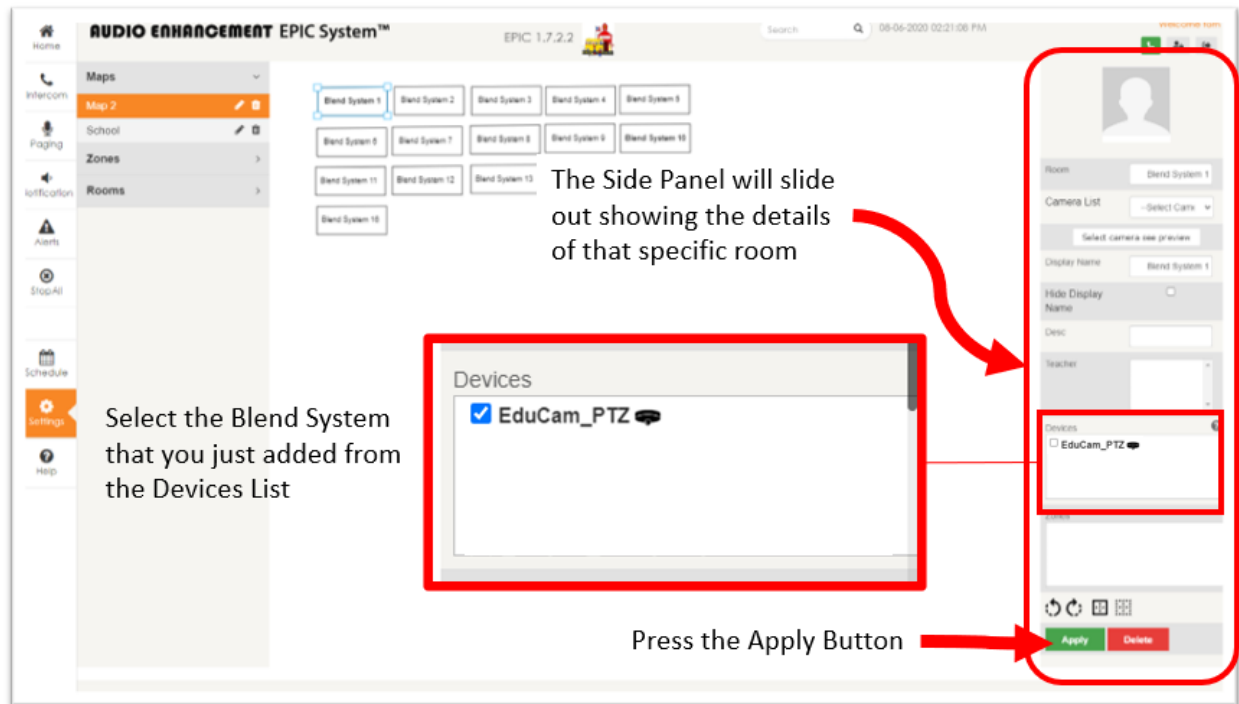


The screenshot shows the 'AUDIO ENHANCEMENT EPIC System™' interface. The 'Maps' section is highlighted with a red box and an arrow pointing to it. Below the 'Maps' section, there is a grid of 'Virtual Rooms' labeled 'Blend System 1' through 'Blend System 15'. A red arrow points from the 'Blend System 1' button to the 'Blend System 1' button in the 'Known Devices' list from the previous screenshot. Another red arrow points from the 'Blend System 1' button to the 'Blend System 1' button in the 'Virtual Rooms' grid. A red arrow points from the 'Blend System 1' button to the 'Blend System 1' button in the 'Virtual Rooms' grid.

Each Blend System needs to be assigned to one of the 'Virtual Rooms' in the VIEWpath Server

Your Server was pre-configured with the same number of virtual rooms that were ordered as part of the original system

Select the 'Virtual Room' that you want to assign this Blend System to

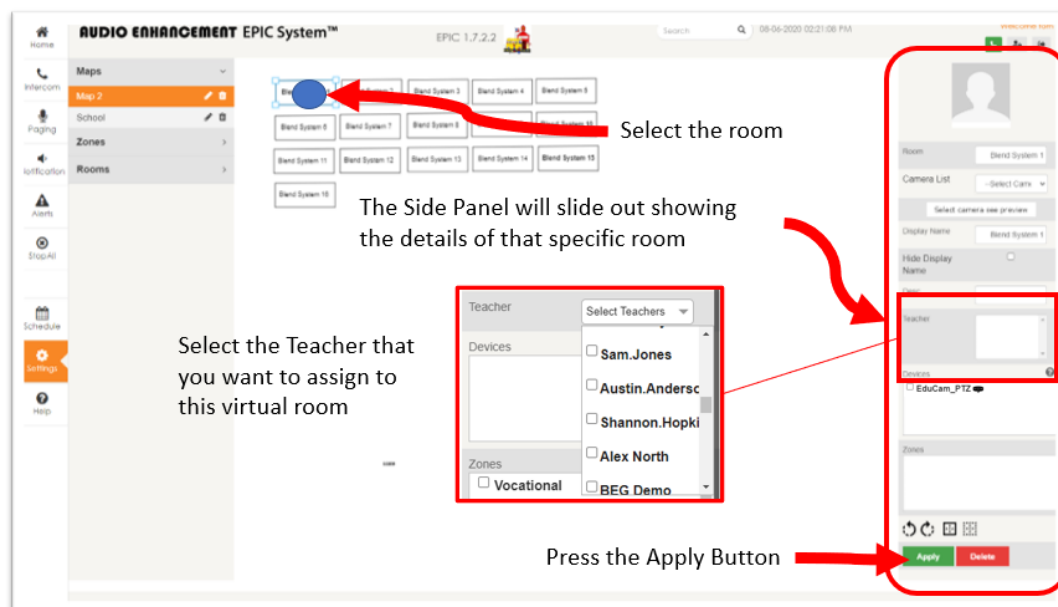


- Once you have assigned a Blend System to a virtual room, you will want to physically label that system in some way so that you know which Blend System is assigned to each room.
- Repeat this process for the remainder of your Blend Systems

Step 5 - Add Teachers to the Virtual Rooms

The VIEWpath platform allows you to manage which teachers have access to the cameras. This is accomplished by associating a teacher with a virtual room. Only teachers that have been assigned to a particular room can access the Blend System in that room to use the camera.

- Navigate back to the Map Setup Page



Logging In

The VIEWpath server is web-based and can be logged in to via Google Chrome. Contact your school IT representative to get the log in IP address or server weblink for when a DNS (Domain Name System) entry is added.

Note: If there is a security warning, simply click “advanced>proceed to site.” If an SSL certificate is added, this will no longer show up. Below is the login prompt users will see when accessing the system.

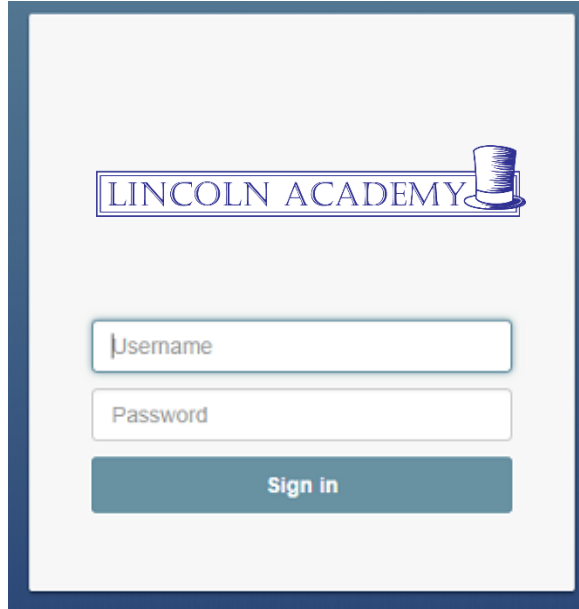
The image shows a login interface for Lincoln Academy. At the top, there is a logo that reads "LINCOLN ACADEMY" in a serif font, with a small illustration of a top hat to the right. Below the logo, there are two input fields: the first is labeled "Username" and the second is labeled "Password". Both fields have a light blue border and a small blue icon on the right side. Below these fields is a blue button with the text "Sign in" in white. The entire login area is enclosed in a dark blue rectangular frame.

Fig. 1

Log in using provided credentials (see Fig.1). The default admin user account is schooladmin:password. If LDAP has been enabled, this will be the normal login account used for email, computer, etc. User will be logged in and see the portions of the software to which rights have been granted. The first page is the “Home” screen, which is a visual representation of the school (see Fig. 2 on next page).

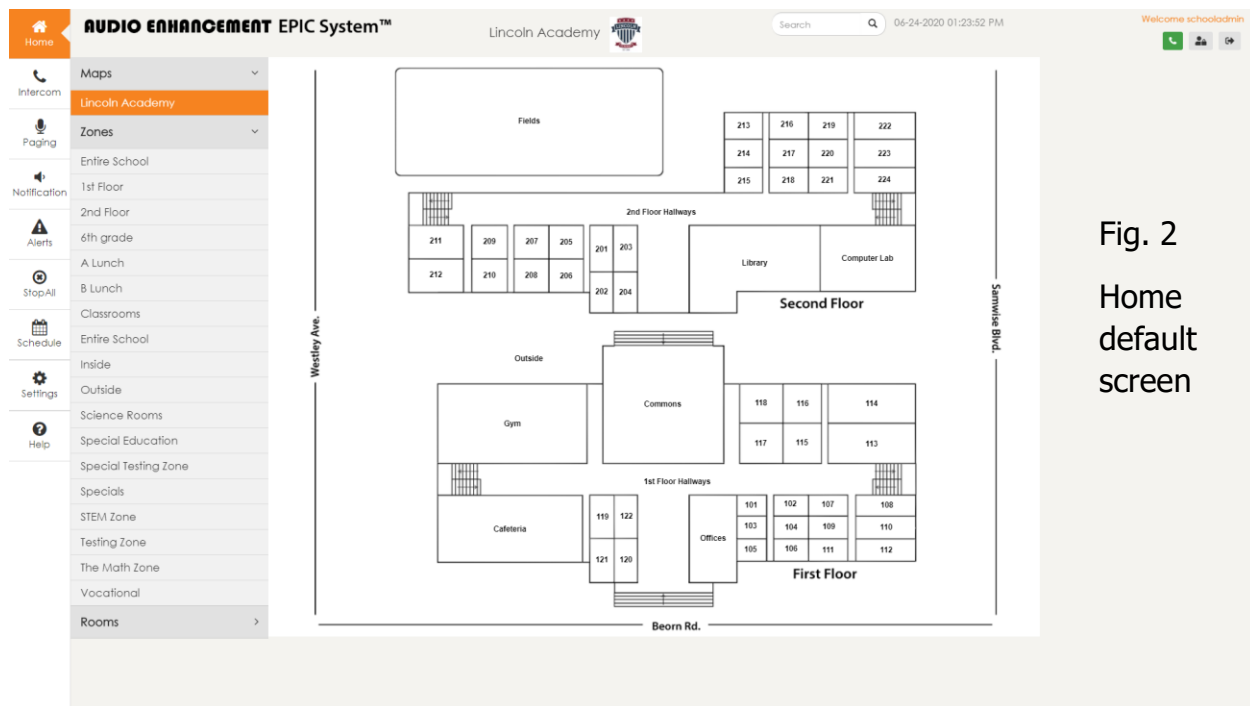




Fig. 2
Home
default
screen

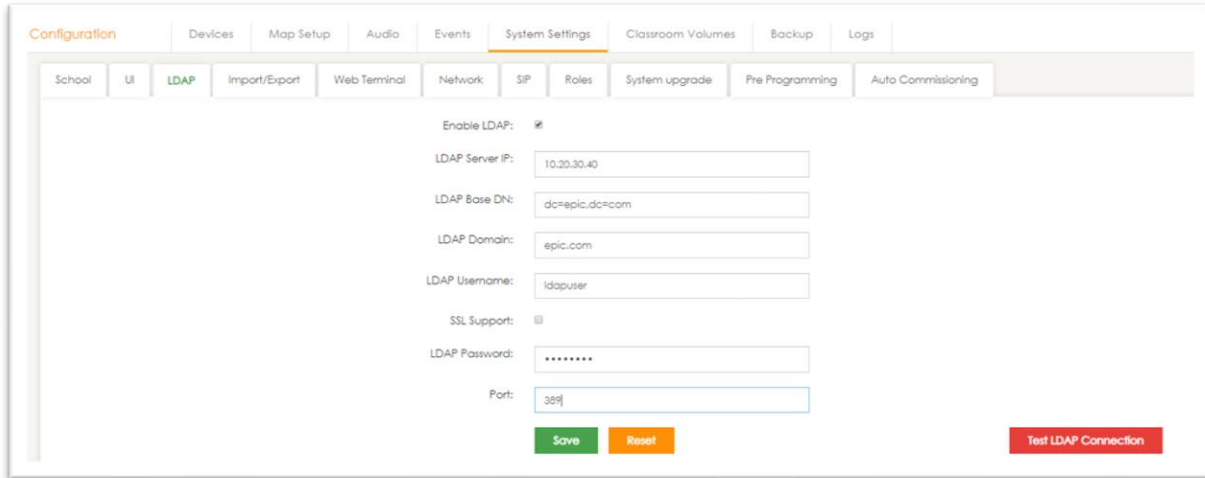
The menu along the left side allows users to click these icons to perform the appropriate tasks. For administration, click the “Settings” gear icon . The VIEWpath module primarily uses the “Settings”  section of the larger EPIC platform.

LDAP – Managing your Teacher Users

Users can be added to the system in one of two ways. They can be added and managed manually as local users, or an integration with LDAP can be created. Because VIEWpath with the Blend Systems is by definition a system that is used by teachers, it is going to be much more efficient to create the integration with LDAP, thereby allowing the teachers to use their same logins that they use for other computers and systems, and also allowing the administration and management of users to happen in one place, the LDAP database.

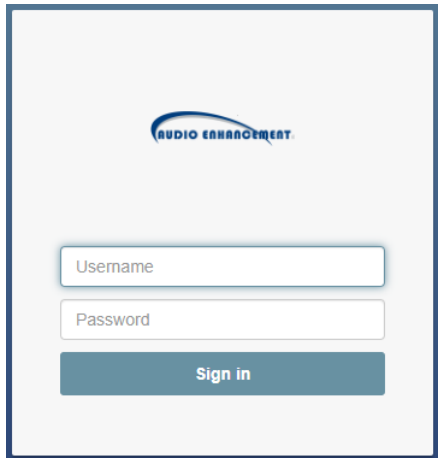
LDAP

The VIEWpath system will work best by creating an LDAP connection to log in the users and assign privileges. The LDAP settings are found under configuration. Enter the appropriate information for LDAP connection or update the username/password if credentials have changed and click “Save.” A test can be done by clicking “Test LDAP Connection,”.

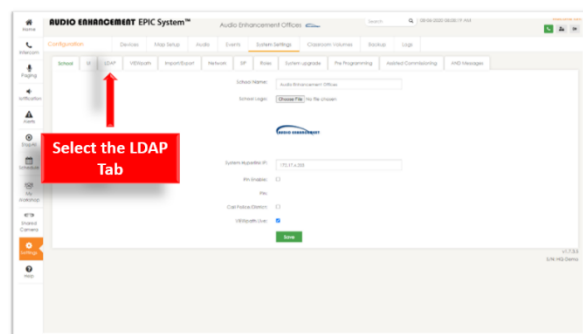
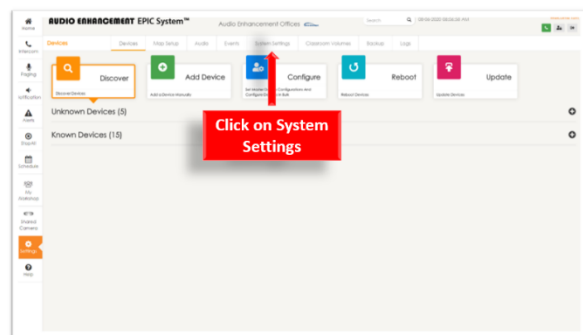
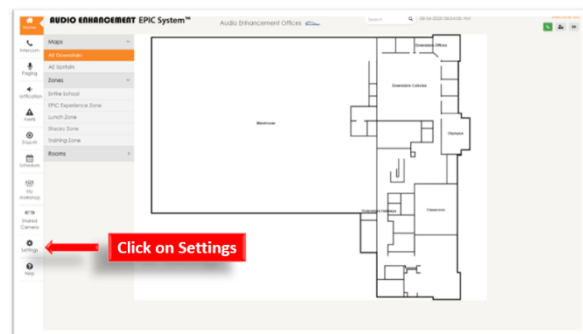


LDAP Setup

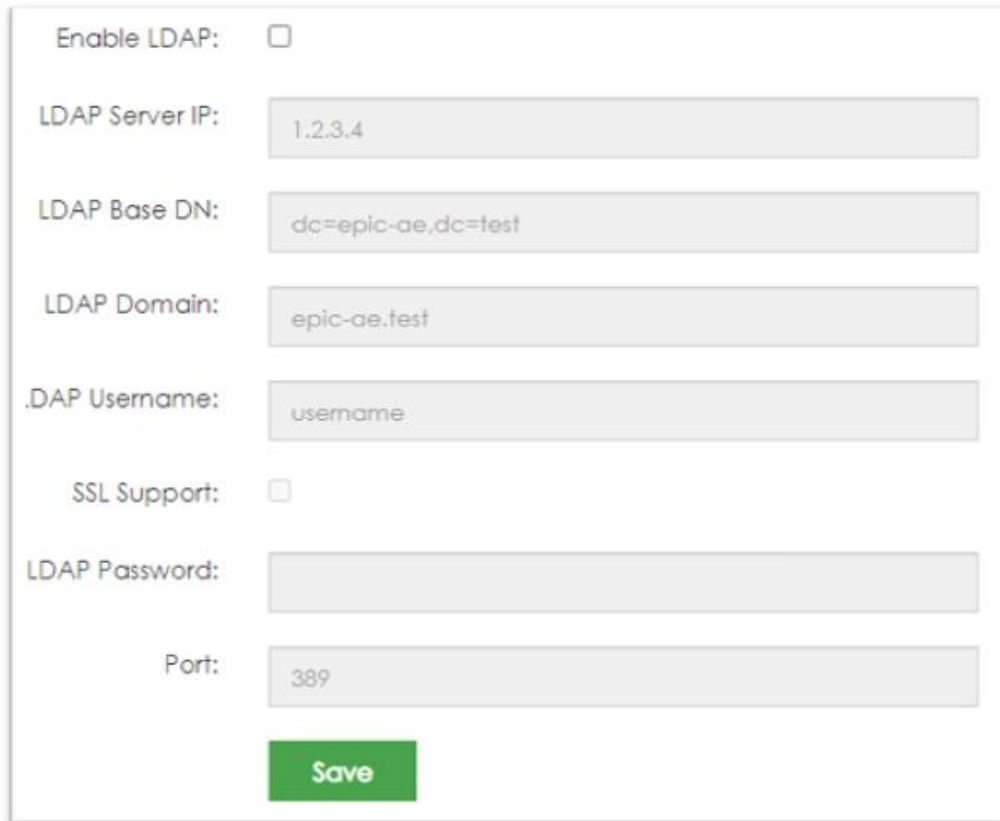
- Login as an administrator (Default Admin login is: User Name: schooladmin Password: password)



- Navigate to the LDAP Tab in the System Settings section



- Enter your LDAP Information & press 'Save'

A web form for LDAP configuration. It includes a checkbox for "Enable LDAP:", input fields for "LDAP Server IP:" (1.2.3.4), "LDAP Base DN:" (dc=epic-ae,dc=test), "LDAP Domain:" (epic-ae.test), "LDAP Username:" (username), "LDAP Password:" (empty), and "Port:" (389). There is also a checkbox for "SSL Support:". A green "Save" button is at the bottom.

Enable LDAP: ☐

LDAP Server IP: 1.2.3.4

LDAP Base DN: dc=epic-ae,dc=test

LDAP Domain: epic-ae.test

LDAP Username: username

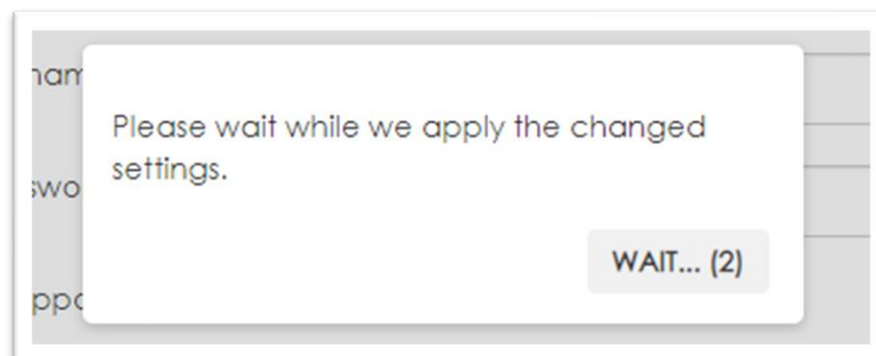
SSL Support: ☐

LDAP Password:

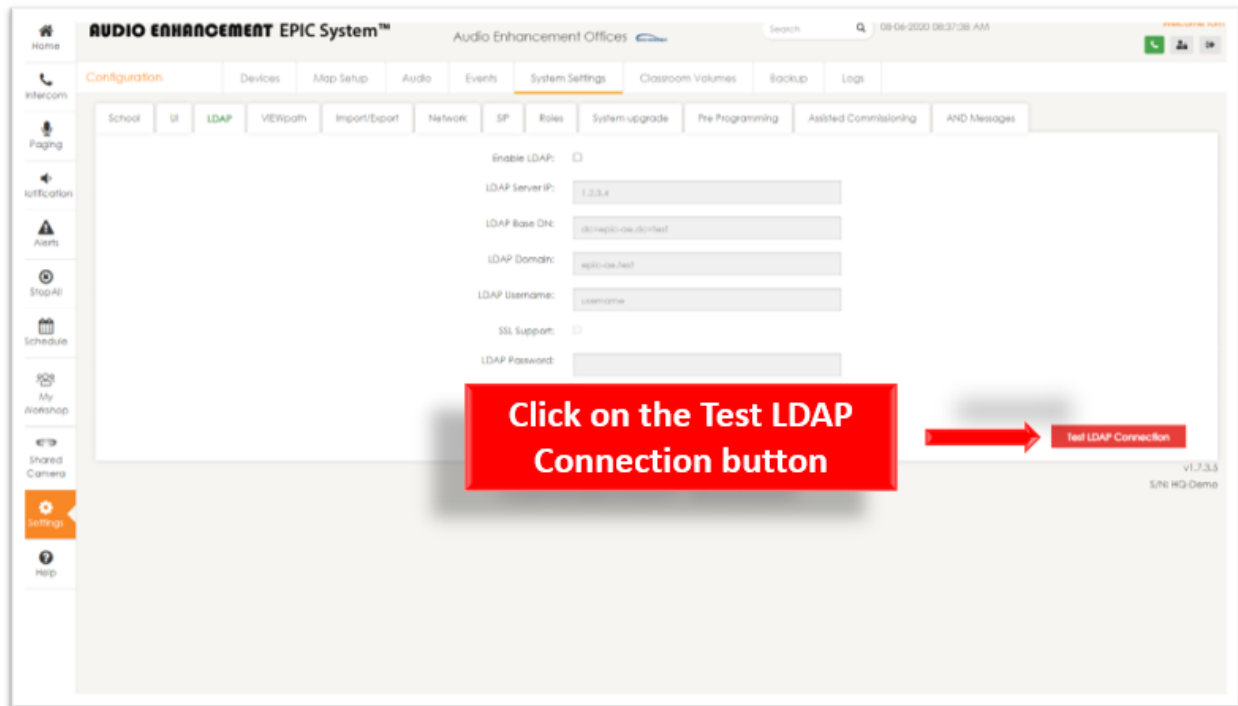
Port: 389

Save

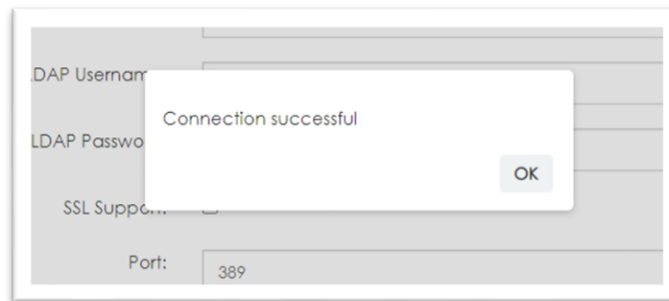
- After pressing 'Save' you will see the following message, and the browser will refresh, returning you to the home screen



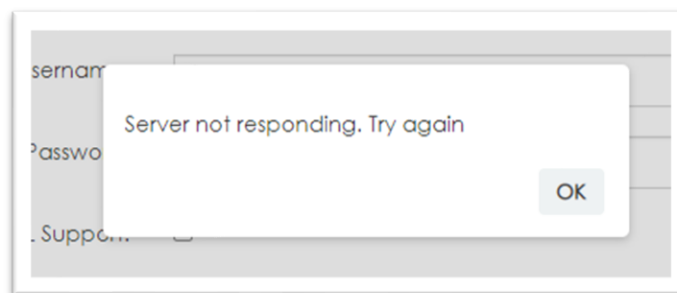
- Navigate back to the LDAP tab in the System Settings Section



- You should get a dialog box that shows Connection Successful

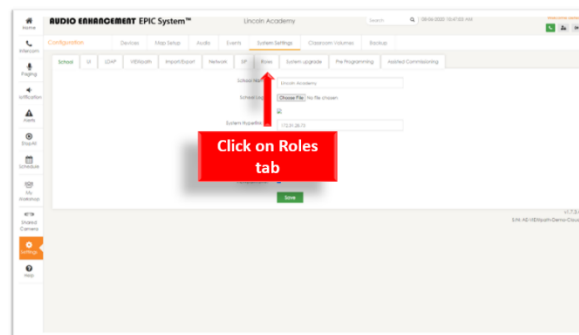
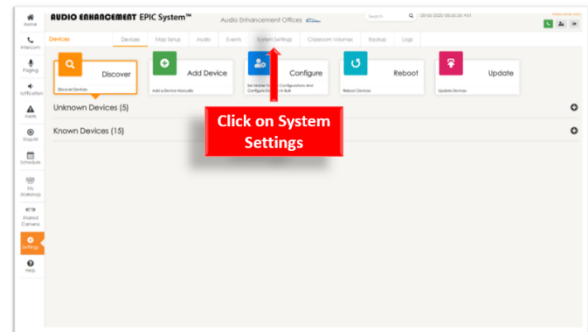
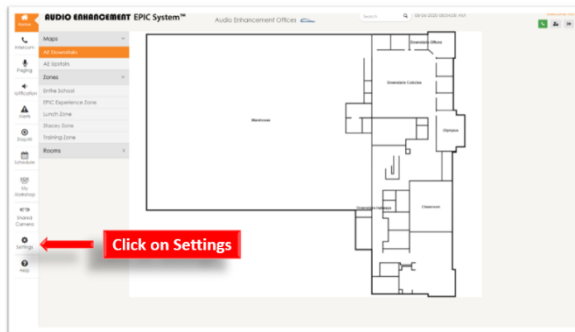


- If you receive a Server not responding. Try again message – re-check your LDAP information and press 'Save' again

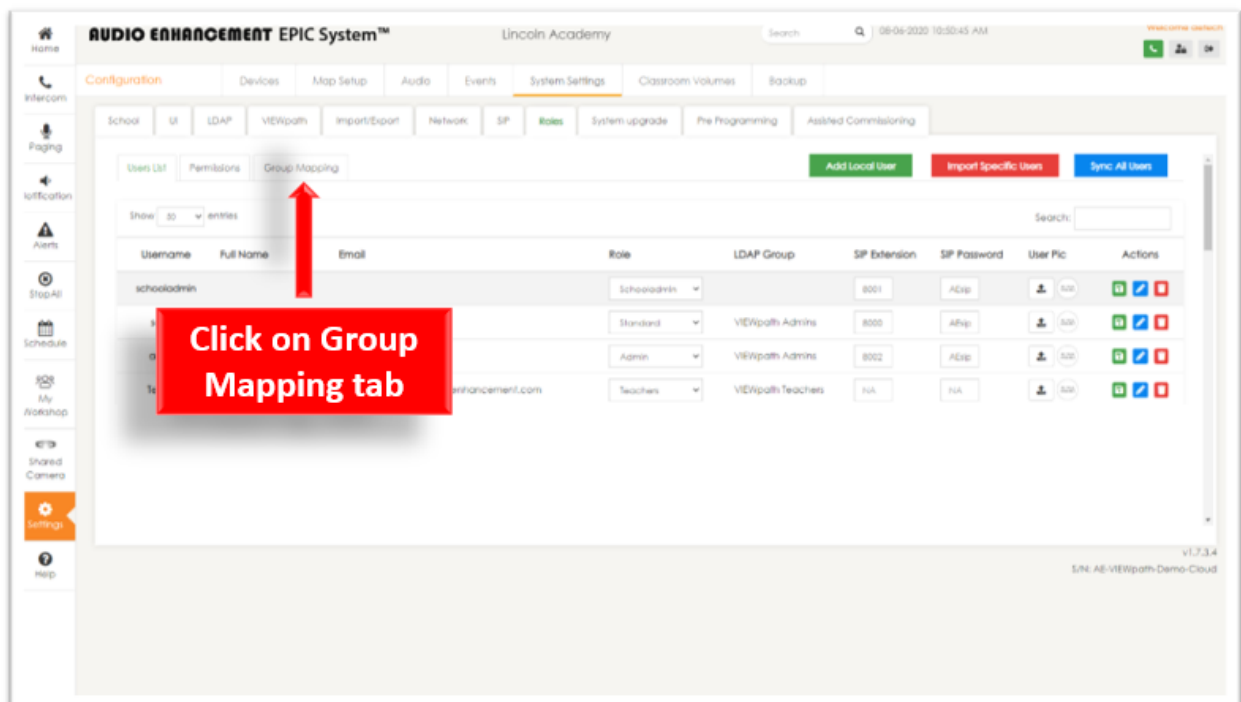


Assigning LDAP Groups to VIEWpath Roles

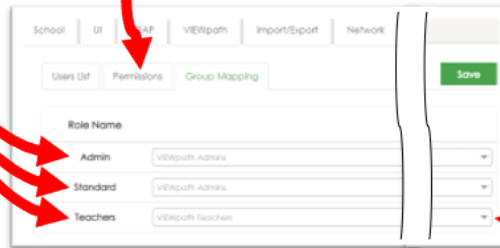
- Navigate to the Roles Tab in the System Settings Section



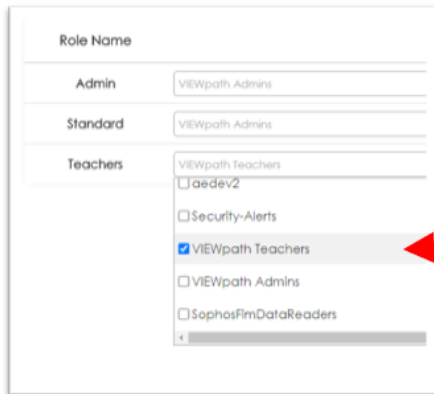
- Select the Group Mapping Tab



Each of these roles is associated with a set of permissions defined on the Permissions tab



Clicking on the arrow will drop down a list of all of the available groups in your LDAP directory.



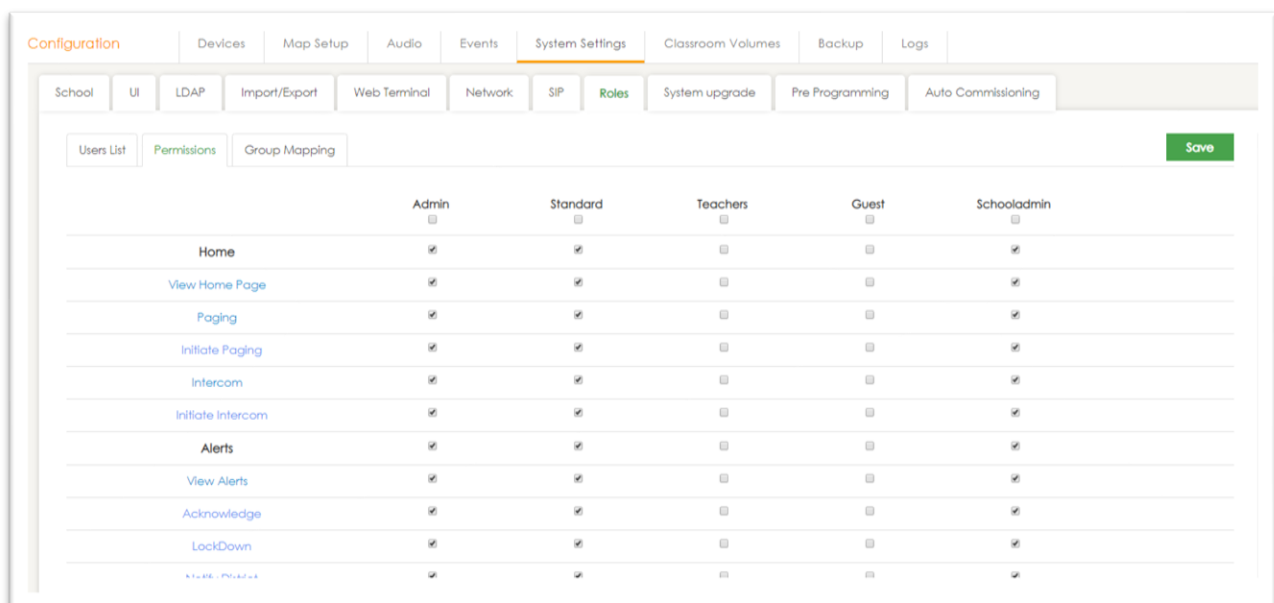
Select the group(s) that you would like associated with each role

User Roles/Privileges

Now, assign permissions to each role according to the permissions they should have.

Click “Permissions” and the permissions matrix will come up for each role (see screen shot on next page). **Note: the only role that will allow access to the teacher focused VIEWpath User Interface is the Teacher role.**

Now, simply check the access for each user role to have. If a heading like “Home” is checked, it will check all the settings within that heading. Click “Save” once complete and permissions are updated.



	Admin	Standard	Teachers	Guest	Schooladmin
Home	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
View Home Page	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Paging	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Initiate Paging	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Intercom	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Initiate Intercom	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alerts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
View Alerts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Acknowledge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
LockDown	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Auto Commissioning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

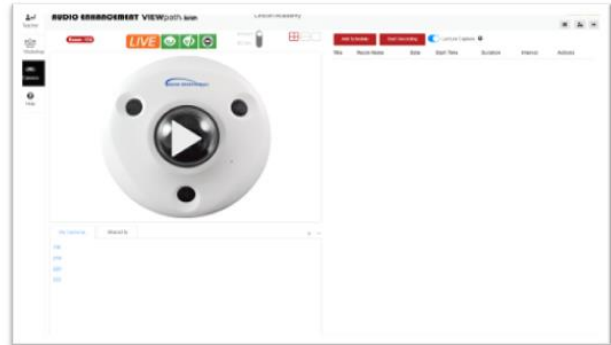
Teacher Role

When a teacher logs in, they are presented with the teacher screen, rather than the admin screen. This is determined by the role that they are assigned to.

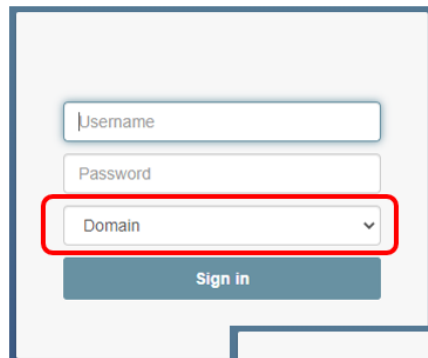
Admin Home Screen



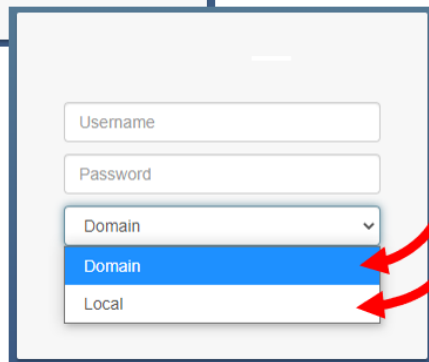
Teacher Home Screen



Login Screen after LDAP Configuration



After setting up your LDAP Configuration, the Login Screen will allow you to now select Local or Domain Users



Domain Users are users that are part of your LDAP Directory

Local Users are users that are created directly in the VIEWpath System including the default users you used for initial setup

Managing your Blend Devices

The system uses the IP Cameras provided by Audio Enhancement to facilitate the live and recording functionality of the VIEWpath System. Each Blend System is identified and managed by the IP address that it receives from your network.

It is recommended that the network be configured with IP address reservations for the Blend Devices so that regardless of the port that the unit is plugged into, it will always receive the same IP address. This will ensure that the VIEWpath head always recognizes and correctly assigns the device to the same virtual or physical room. Alternatively, the Blend Systems can be configured with a Static IP, but this is

not recommended as a best practice for managing your network. The Blend devices must be online and registered to the server to function properly.

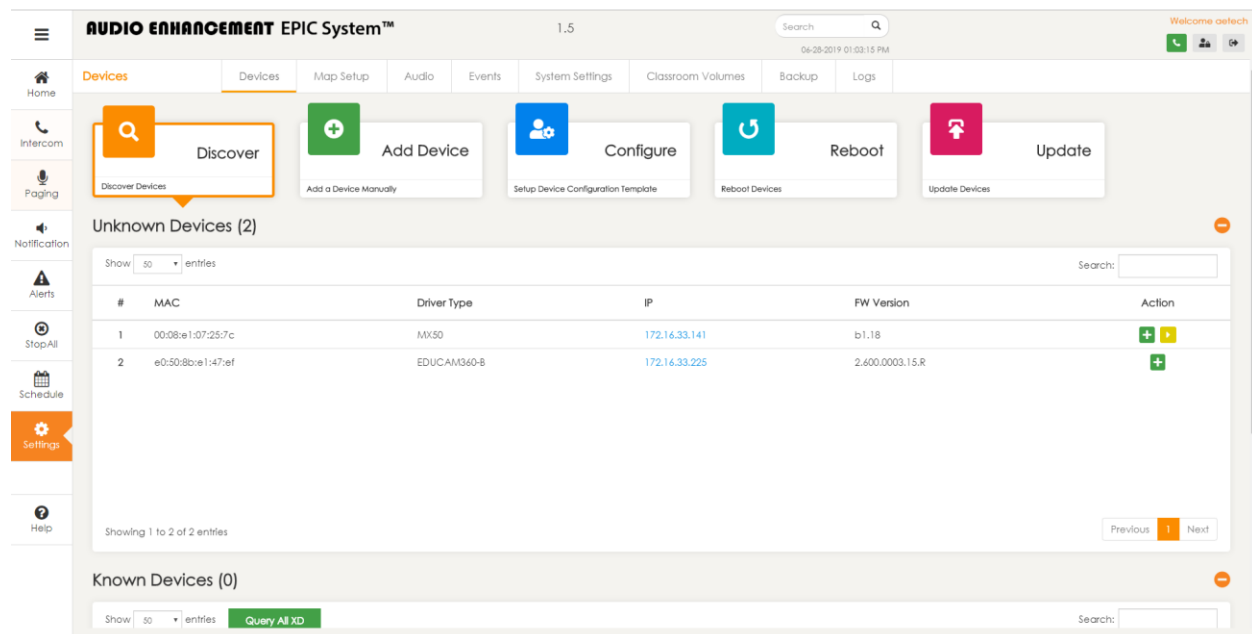
Automated Device Management

Device management and configuration is automated by the VIEWpath System when using Audio Enhancement supported cameras. The VIEWpath System will discover and recognize the devices on the network automatically. When added to the system, the device settings are stored and managed from the VIEWpath System – no need to login to the endpoint device. Blend System devices can be added, programmed, and updated all from within the VIEWpath System.

Device Discovery

Login into the VIEWpath system with your admin credentials, using a Chrome Browser.

From the Devices tab within settings, the “Discover” module will run automatically (see Fig. 22 on next page). This is the home and primary page for existing device status and editing as well. When the page loads, the VIEWpath System will check the network (LAN discovery only) and if it finds any Audio Enhancement devices on the network that it has not registered, it will list them in the “Unknown Devices” list. The devices can then be easily added into the VIEWpath System. If there are no unknown devices, this section will be collapsed and only the known devices will be displayed. This section can be manually expanded or collapsed by pressing the + or – button.



AUDIO ENHANCEMENT EPIC System™ 1.5

Search: []

06-28-2019 01:03:15 PM

Welcome aeftech

Devices | Devices | Map Setup | Audio | Events | System Settings | Classroom Volumes | Backup | Logs

Discover | Add Device | Configure | Reboot | Update

Discover Devices | Add a Device Manually | Setup Device Configuration Template | Reboot Devices | Update Devices

Unknown Devices (2)

Show: 50 entries

Search: []

#	MAC	Driver Type	IP	FW Version	Action
1	00:08:e1:07:25:7c	MX50	172.16.33.141	b1.18	[+]
2	e0:50:8b:e1:47:ef	EDUCAM360-B	172.16.33.225	2.600.0003.15.R	[+]

Showing 1 to 2 of 2 entries

Previous 1 Next

Known Devices (0)

Show: 50 entries

Query All XD

Search: []

Fig. 22

All “Known” devices will be listed on this page as well (see Fig. 23). When the VIEWpath System registers a device, it stores that specific MAC address to distinguish it from all other devices on the network and lists it in the known devices list.

Known Devices (1) -

Show entries Query All XD Search:







#	Device Name	Driver Type	Status	IP	MAC	XD ID	Extension	FW Version	Action
1	JHS-141-MS450		●	172.16.33.141 	00:08:e1:07:25:7c	0	141	b1.18	   

Fig. 23

Adding a Blend Device to your system

Devices can be added to EPIC System by clicking the “+” icon within the unknown devices list (see Fig. 24).

Unknown Devices (2)

Show 50 entries

Search:





#	MAC	Driver Type	IP	FW Version	Action
1	00:08:e1:07:25:7c	MX50	172.16.33.141	b1.18	 
2	e0:50:8b:e1:47:ef	EDUCAM360-B	172.16.33.225	2.600.0003.15.R	 

Fig. 24

This will bring up a pop-up window “Identify Unknown Device”. This is the easiest and preferred method to adding a device. The user will need to specify desired device name (Audio Enhancement standard is SchoolAbbreviation-RoomNumber-DeviceType – e.g. JHS-141-EDUCAMPTZ). Please note that when using the Blend Systems exclusively in your VIEWpath system, while it is necessary to have a ‘room’ in the system for each Blend System, that room could be a virtual room or a physical room.

Click submit. EPIC System will register the device and push its settings and site standard configuration* to that device and it is ready to go.

*For more details regarding *Site Configuration Templates* please refer to that section in the complete admin manual.

Example: Add EduCam from Discovery (see Fig. 25)

ce Type

IP

FW Version

IDENTIFY UNKNOWN DEVICE

Device Name *

Device Type *

Current IP/URL *

Assign static IP: ☐

Mac *

Submit

Fig. 25

Manually Add a Blend Device

If the device is not yet on the network or for some other reason the device is not automatically discovered by EPIC System, the device can be manually added by clicking the “Add Device” module within the Devices tab. The same information from above is required. The user must enter the device info and click Submit (see Fig. 27). The user must also manually enter the MAC address of the device being added (add any format, it will update to colon notation). This is required so the VIEWpath System recognizes it as a known device. The VIEWpath System will configure the device so it’s ready for use.

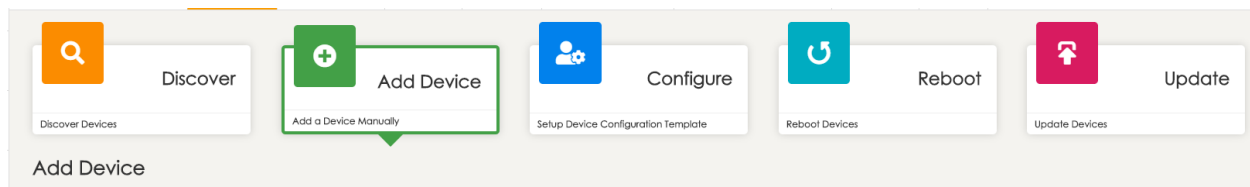
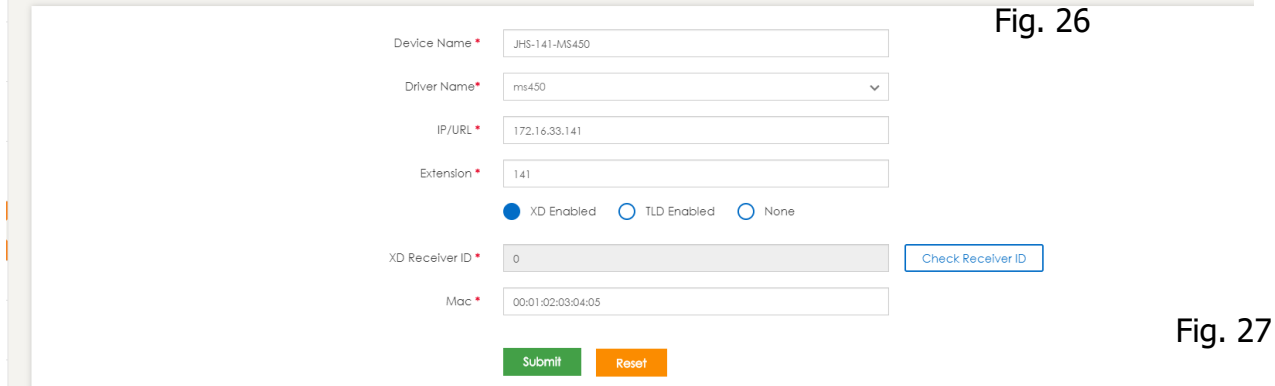


Fig. 26



Device Name * JHS-141-MS450

Driver Name * ms450

IP/URL * 172.16.33.141

Extension * 141

☒ XD Enabled ☐ TLD Enabled ☐ None

XD Receiver ID * 0 [Check Receiver ID](#)

Mac * 00:01:02:03:04:05


[Submit](#) [Reset](#)

Fig. 27

Managing Virtual or Physical Room Assignments for your Blend Systems

Rooms are what the VIEWpath system uses to associate Blend Systems with Teachers. In some cases, you may have loaded an actual map of the school building in order to associate the Blend Systems with an actual physical room. In other cases, the ‘rooms’ may just be virtual representations that are there to allow the association of the users with that specific Blend System. Either way, the process is the same. Rooms are defined as objects that contain the devices (Blend Systems) and are visually represented on the map.

Add Room

To add a room, first navigate to Settings  then click “Map Setup.” (see Fig. 52 and 53)

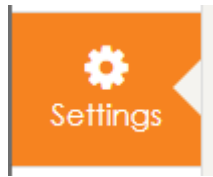


Fig. 52

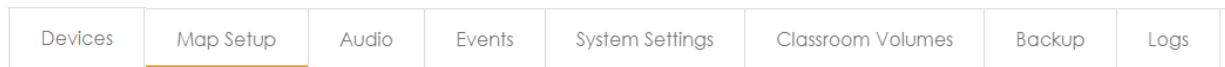


Fig. 53

Click “Maps” and then click on the school map to display the map (see Fig. 54). If you have chosen to not have an actual map of the building, and just represent the Blend Systems as Virtual rooms, you will only just see a white Background with squares representing each of the Blend Systems that you initially purchased.

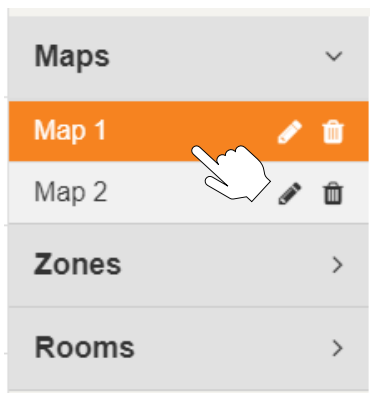


Fig. 54

Click “Add Room” on the right side of the screen, to add a new room (see Fig. 55).



Fig. 55

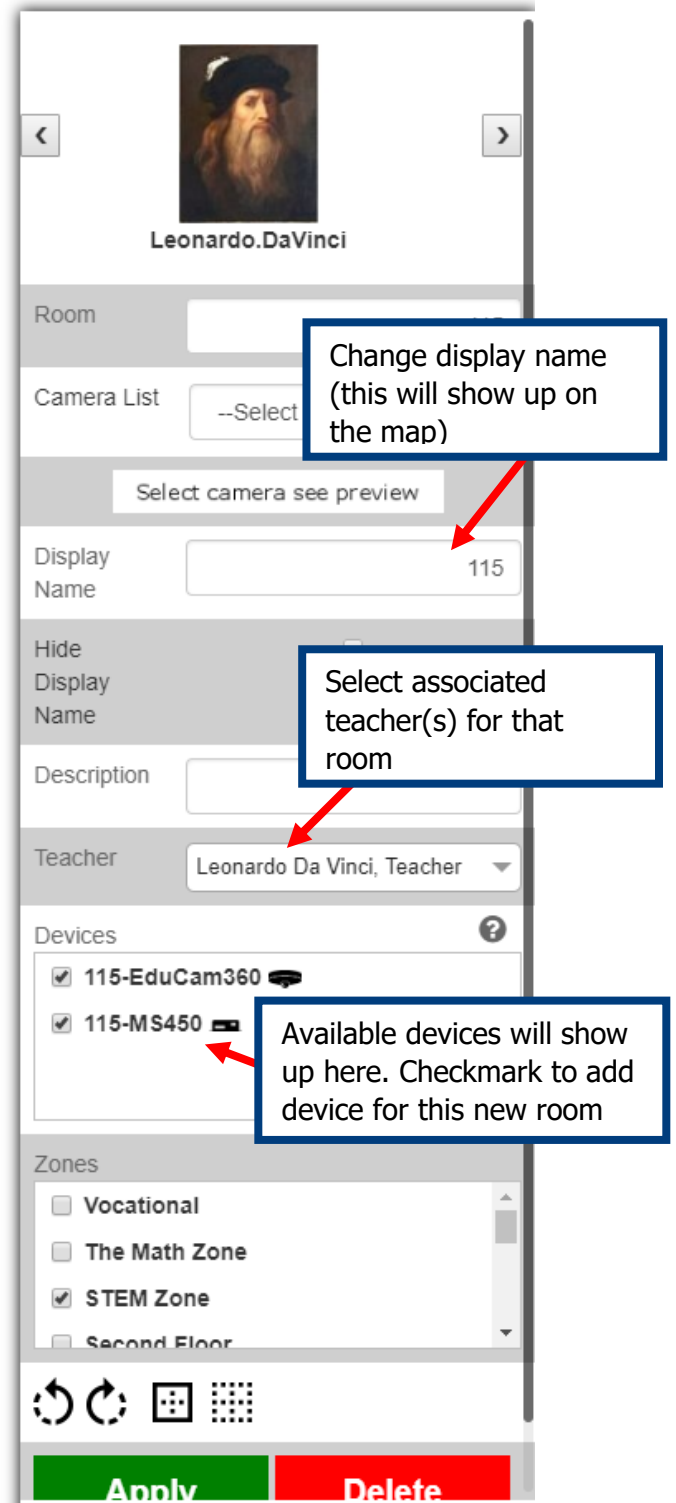
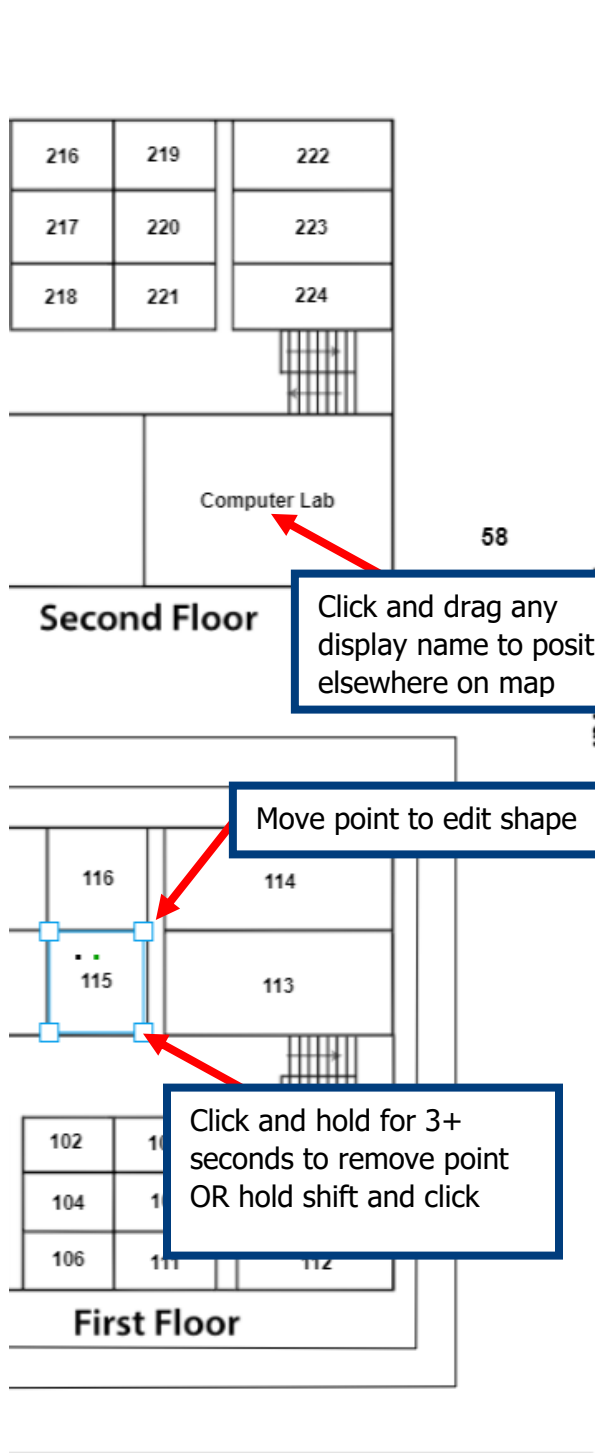
The new room will come up along with the room information panel (see Fig. 56). Resize/shape the room by clicking and dragging the four (4) points on the corners and placing them in the appropriate shape.

If the line is clicked, it will add a new point in the shape to be moved and manipulated. If any points need to be removed, click and hold the new point for three-seconds and it will be deleted. (you may also hold down the Shift key and click on a point to remove it)

Enter the information for the room. The Display Name is what will show up on the map. Enter the name and description. (You will not need to select any zones for the rooms when using the system only for the VIEWpath functionality), Select the teacher(s) assigned to this room and then Scroll down and click "Apply." (See Fig. 56)

Note: Any teacher that is assigned to the room on the Map Setup page will have full access to the camera assigned to that room.

Fig. 56

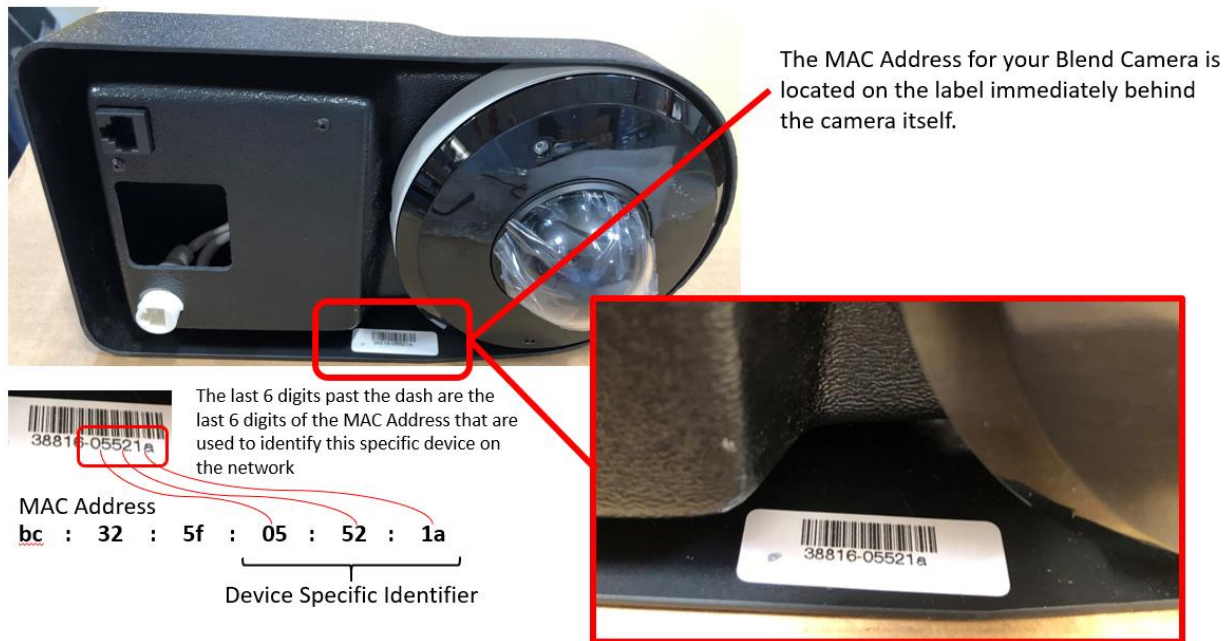


Edit Room

To edit a room, change the name of a room, change the teacher(s) assigned to the room, or change the devices belonging to the room, go to “Map Setup” and click the room. The information panel will come up and any information can be edited. Click “Apply” to save the changes to that room. To edit the shape, click on the room to reveal corners. Drag the corners to reshape the room.

Locating the MAC Address of the Blend Camera

The MAC Address is included in the serial number label of your Blend Camera. The last 6 digits of the MAC Address are the last 6 digits of the Serial number



It is also located on the camera box itself:

