



## Conductor School Communication System

Modern schools require a comprehensive, cohesive and reliable solution to manage administrative functions, campus communications and classroom technology.

The Conductor School Communication System is an IP-based, campus-wide communication and control solution that allows administrators to manage their day-to-day operations reliably and cohesively. Our comprehensive solution is built on a client-server architecture that utilizes a school's existing network to seamlessly integrate our ezRoom and Juno Connect classroom systems and other audiovisual equipment.

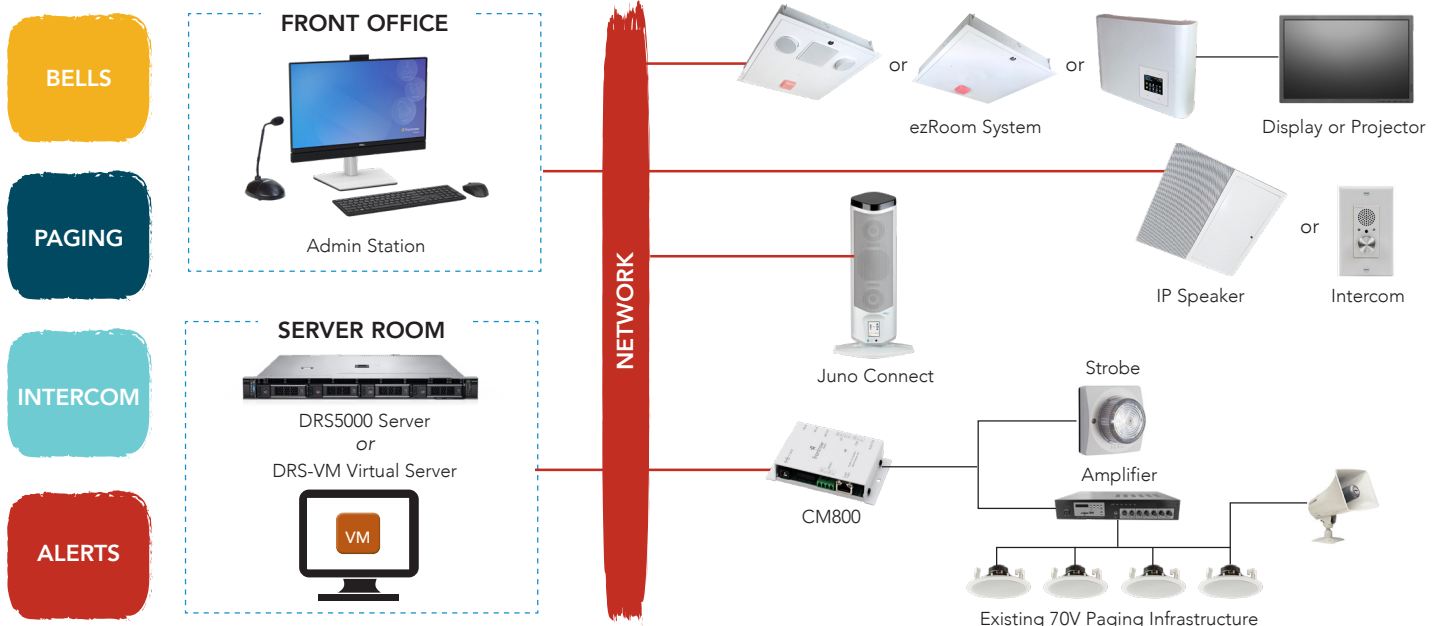
The backbone of our solution is the Conductor DRS Server which can be deployed as a dedicated hardware solution, or as a virtual server residing on a school's existing virtual machines. Day-to-day operations are managed through our dedicated Admin Station while remote monitoring can be done on any PC or Mac connected to the network.



### Key Features

- Daily bell schedules and audio communications to the entire campus, preconfigured school zones, or to any individual classroom
- Robust emergency alert communications with audio instructions, visual messaging, mass email and phone alerts, fire alarm and access control integration
- Dedicated Admin Station, all-in-one touchscreen PC
- IP-based, client-server platform
- Seamless integration with FrontRow devices and other networked technology
- Two server options; DRS5000 hardware-based server or DRS-VM virtual server
- Centrally monitor and support thousands of devices with real-time data and automated control
- Optional ATA phone integration
- iOS App for Principals enables lockdown or alerts from anywhere on school WiFi
- Conductor App for Boxlight interactive flat panels enables teachers to call or alert the office

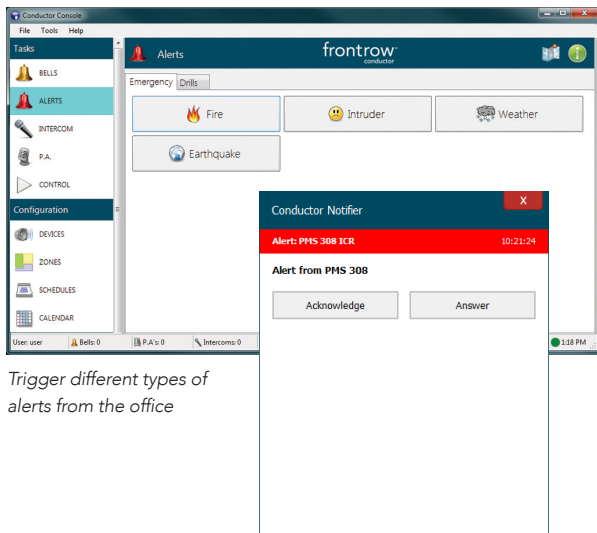
### HOW IT WORKS



# Conductor School Communication System

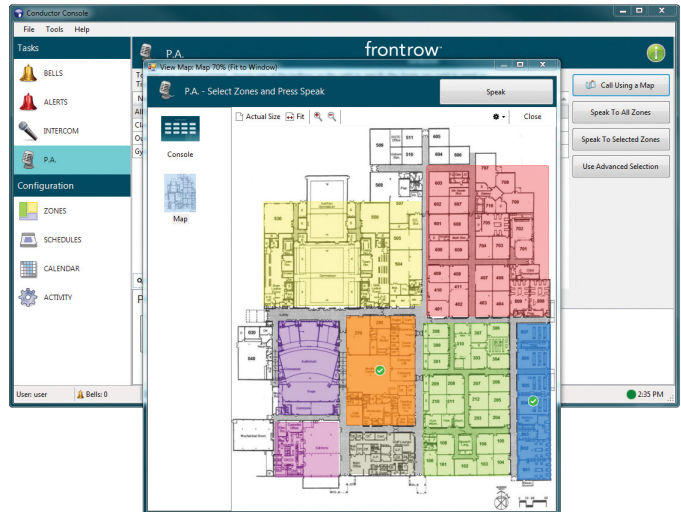
Administrators can manage school-wide audio communications (manage alerts, make announcements, intercom calls, set bell schedules, stream music) and remotely monitor and control a wide variety of FrontRow devices and other networked AV technologies to ensure classrooms are operating correctly.

## CONDUCTOR CONTROLS



Trigger different types of alerts from the office

Acknowledge and answer calls from specific classrooms

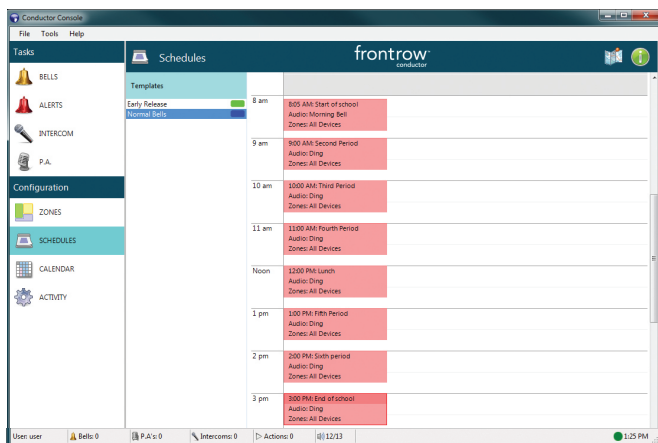


Create a map of your school to enable zone notifications



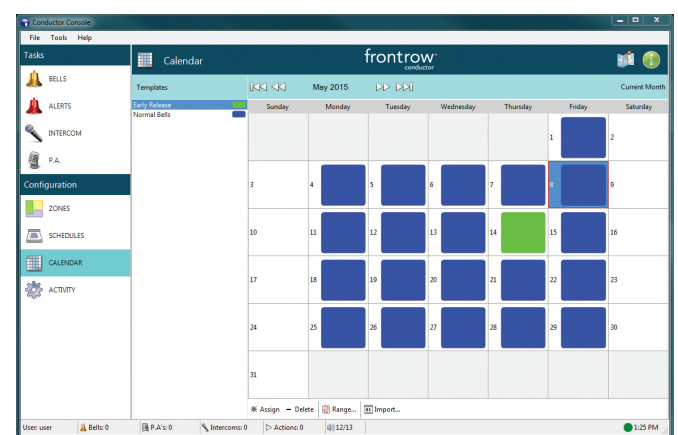
The Conductor app enables staff to initiate alerts and actions from anywhere on the school network.

## BELL SCHEDULES



Create and change bell schedules

## CALENDARS



Create and manage school calendars

# Conductor DRS Server

Network administrators need flexibility when deploying school technology. The Conductor DRS server can be deployed as a dedicated hardware solution, or as a virtual server residing on a school's existing virtual machine environment. Our Linux-based solutions are extremely stable, reliable and are dedicated to running Conductor and FrontRow devices. Scheduled software backups and UPS battery backup\*\* make it easy for IT professionals to plan for, and recover from, almost any situation.

## Key Features

- Linux Ubuntu operating system
- Conductor preloaded
- Webmin remote admin preloaded
- Browser-based interface
- Easy discovery of connected FrontRow devices
- Configurable backup and time sync options

## DRS5000 or DRS-VM (Virtualized Conductor Server)

### SPECIFICATIONS

<b>Operating System</b>	Linux Ubuntu 22
<b>Remote Admin</b>	Webmin
<b>Dimensions (hwxwd)</b>	1U rack server 4.3 x 43.4 x 59.6cm/ 1.69 x 17.1 x 23.5in
<b>Weight</b>	13.6kg/30lb
<b>Bandwidth/stream</b>	<1% of a typical 100 Mbps network (during audio streaming)
<b>Memory</b>	8GB UDIMM, 3200MT/s
<b>Processor</b>	Intel(R) Pentium G6405T 3.5GHz
<b>Mounting</b>	1U/2U static rails for 2 post/4 post racks
<b>Storage</b>	(2) 1TB SATA Hard Drives, 6Gbps, hot-plug
<b>Redundancy</b>	RAID 1 mirroring for instantaneous failover continuity



DRS5000 Server

### DRS-VM Server

<b>Host requirements</b>	Host capable of supporting the VM requirements below Host OS already installed (Windows Server 2019 or 2022) Virtual machine software already installed (e.g., VMware or VirtualBox)
<b>Host recommendations</b>	Monitor, keyboard and mouse connected to host
<b>VMM requirements</b>	VMware ESXi 6.x VMware Workstation Pro 15.x* VirtualBox 6.x with extension pack* Microsoft Hyper-V* <small>*on Windows Server (2019 or 2022)</small>
<b>VM requirements</b>	Minimum 2GB RAM dedicated to the VM Minimum 1 core dedicated to the VM Minimum 160GB disk space available to the VM

### Network Requirements

<b>Streaming Devices with Conductor</b>	253 (static IP addresses recommended)
<b>Subnet</b>	Requires 255.255.255.0; Class C subnet (Conductor only)
<b>Internet access</b>	Optional - Required for Attention! Programming with CleverLive

## Admin Station

School administrators need a reliable, simple interface to manage day-to-day communications and manage alert situations. The Conductor Admin Station is the “head-end” of the Conductor School Communication Platform, consisting of an all-in-one Windows PC touch screen, push-to-talk microphone and FrontRow endpoint connected to a DRS server over the network.

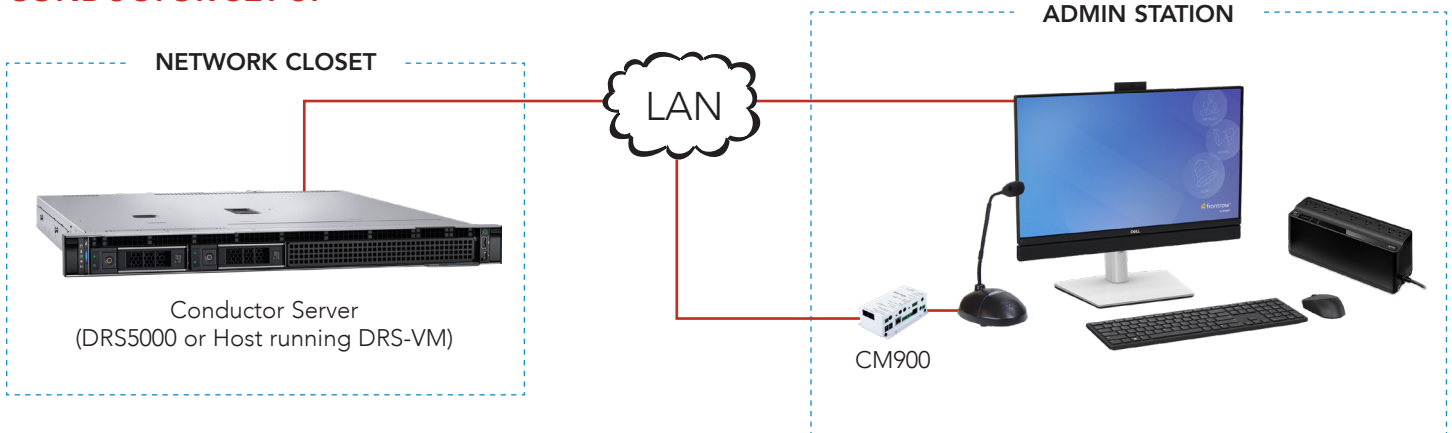
The Conductor Admin Station gives administrators the freedom and flexibility to efficiently manage daily school-wide audio communications, bell schedules and alert communications from one location. An optional strobe light can be mounted in the immediate vicinity to alert administrators, so every inbound communication and alert is noticed.

### Key Features

- Easily adjust bell-schedules for standard or irregular days
- Clear IP audio communications to all school end points
- Flexible zones for efficient school-wide communications
- Robust emergency communications capability includes audio, visual, and mass notification



## CONDUCTOR SET-UP



## ADMIN STATION

### SPECIFICATIONS

#### Push-to-talk microphone

Input power	+12V (ITC port on CM-900)
Connector	RJ45
Sensitivity	5.6 Mv/Pa (millivolt/Pascal)
Size (wxdxh)	114 x 344 x 178 mm/4.49 x 13.54 x 7.01 in
Weight	690g/24.3 oz

#### UPS Battery Backup (U.S./CAN only)

Input voltage	92 - 139V (120V nominal)
Outlets	9 NEMA 5-15 (6 battery, 3 surge only) 2 USB-A
Output	850 VA, 450 Watts
Dimensions (lxwxh)	14 x 33 x 10.7 cm/5.5 x 13 x 4.2in
Weight	4.1kg/9lb
Battery Life	1 Hour of performance for FR-ADMIN

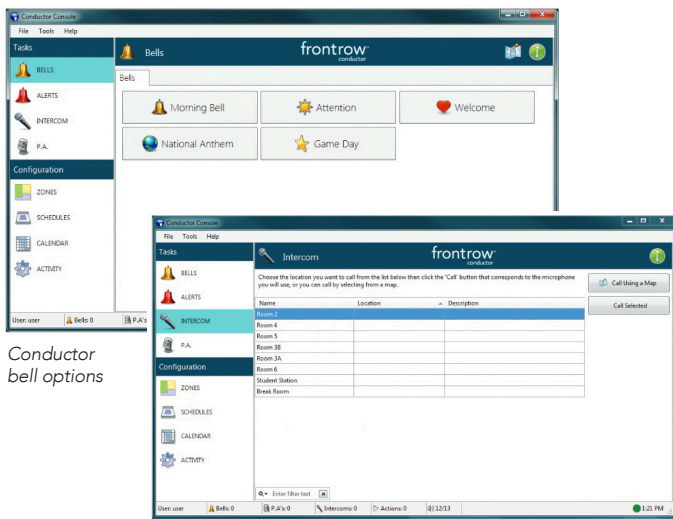
#### Admin All-in-One PC

Wireless Keyboard and Mouse	
256 GB NVMe SSD	
8GB DDR4 RAM	
Windows 11	
23.8" Touch Display	
13th Gen Intel Core i3-13100T	
Network	WiFi 6E 802.11ax or Ethernet
Other	Stereo Speakers, Pop-up Webcam
Display	Swivel, tilt, and rotate 90 degrees

# Conductor Software

Campus-wide communication is an integral part of any school's day-to-day operation. Conductor allows office managers and administrators to efficiently manage school-wide audio communications - make announcements, intercom calls, set bell schedules, stream music, create communication zones and more.

Customized alert sequences may be created to coordinate audio alarms, strobe lights, digital signage, classroom LED beacons and access controls to accommodate a wide array of alert communications.



Conductor bell options

Conductor intercom controls

## Key Features

- Setup a single admin station or multiple admin stations\*
- Page (one-way) to any zone, multiple zones, or to the entire campus
- Intercom (two-way) communication with FrontRow network equipped classrooms
- Stream music or pre-recorded audio
- Create unlimited zones and zone groups
- Page or intercom using school maps and images using touchscreen
- Assign schedules to the entire calendar year at once
- Easily change the weekly or daily bell schedule as needed
- Create customized bells, tones, and music sequences for special events
- Create control buttons to remotely manage projectors, access controls and more
- Receive calls and alerts on any PC or Mac with the Conductor Notifier application
- Works directly with FrontRow networked devices.

\* Requires Windows 10 or later, 100MB hard disc space, DRS5000 or DRS-VM server and a master CM900 controller.

## CONDUCTOR FOR BOXLIGHT DISPLAYS

Download Conductor from the CleverStore on any Boxlight (Mimio, Clevertouch) display so teachers can call the office, activate an alert to administrators, or even trigger a lockdown if necessary.



## CONDUCTOR FOR iOS

Enables Principals to activate lockdowns or alerts from anywhere on school WiFi.



Learn more at [gofrontrow.com](http://gofrontrow.com)



by Boxlight®