

## Welcome!

This document explains what's new in Conductor and how to upgrade your server and client PC.

Conductor 2.0 contains many great new features and abilities. As part of upgrading, you may also want to update the Conductor settings to add things like maps, as well as checking that your system is setup properly for backup and time synchronization with other FrontRow devices.

## Versions

This release consists of the following versions:

- Conductor console v2.0.0.2
- Conductor server v1.3.0
- Maestro console v2.1.1.10
- Maestro server v2.1.0
- Notifier 2.1.0.15 for Windows (Updated 2017)
- Notifier 1.2.1 for MacOS

## New Features

New device compatibility	Support for Juno Connect, Smart Receiver (ICR-01), and Stream Amplifier (CM800Si)
DRS Recovery (Flashback)	<p>Now you can easily backup all your important data on the DRS5000 to an external flash drive, using either the FrontRow Flashback drive or your own 8GB or greater USB flash drive.</p> <p>Restoring from your backup is easier than ever. Flashback allows you to restore your data to your existing server or a new server in just a couple minutes so your school can keep running smoothly. Whether from user error or hardware failure, now you can recover from disaster quickly and easily.</p>
TimeSync	Using the new TimeSync feature in Webmin (the web interface for the server), you can synchronize your DRS5000 time to all your CB6000s, CB5000s, and CB2000s (for time-based events) so that clocks match everywhere across the school, or across the district.
Paging with Maps and Images	Now you can easily page or intercom to a hotspot on a map. After importing your school maps, assign hotspots to zones or devices, then easily call those areas from the PA or Intercom view in Conductor. Great for easy access to school buildings or outside areas. It can also be used to create custom button consoles that match the office manager's intercom needs.
Improved User Experience	The Conductor and Maestro consoles now have an improved look and feel.
Server Home page	You can now navigate directly to the server IP address and from there launch into any of the DRS5000 services such as Webmin, Maestro Web page control, Encore License and Update service, and the DRS status page.
Web Page Remote Control	Using a standard browser, you can now access the control page for any classroom projector or CM3000 under Maestro control. In Maestro you can create Control Templates for different room configurations. Useful for administrators when supporting teachers and other users in trying to help them with their systems.
Email encryption	The email function now includes the ability to connect to email servers with TLS/SSL encryption.

## New Features (cont.)

Device Discovery	Both Conductor and Maestro can scan the network for FrontRow devices to import into the device lists (Conductor) and locations (Maestro). This speeds up the initial installation considerably and eliminates the need to add devices manually or import from a CSV file (though those methods are still available).
Other changes and fixes	<ul style="list-style-type: none"> <li>• Categories for Bells and Alerts are now separated by tabs to prevent running off screen.</li> <li>• Audio tools now shows the servers to upload to based on the server list created in Conductor console</li> <li>• There is a lock button to prevent accidental changing of the base IP address</li> <li>• A new Refresh button allows you to scan for changes to the device master/intercom status</li> <li>• The device list now has an IP address column</li> <li>• You can jump to the web configuration page for a device by right-clicking on the device or pressing CTRL+W</li> <li>• The Schedules and Calendar views have been moved to the top level of the views on the left side of the app</li> <li>• Numerous other stability and performance improvements</li> </ul>
New Notifier for Windows (2017)	Notifier has been redesigned and now includes the ability to acknowledge or answer an alert. Acknowledging an alert will also silence other Notifiers running on the network, and automatically send a message to the Juno Connect and Smart Receiver, changing the beacon or LCD color/state. Answering an alert will start an intercom call.

## About the files

This release includes the following files:

DRS-update_20150514	This file updates the server and is run from the root level of a USB drive inserted into the server.
<b>Conductor</b>	
Beacon Chart	A customizable color chart to print for teachers for use with their ezRoom Smart Receivers or Juno Connects.
Admin Station Quick Setup	Quick setup page for use with the FR-ADMIN FrontRow Admin Station
Admin Kit Quick Setup	Quick setup page for use with FR-AD-KIT Admin Kit, when using your own PC for an admin location
Talkback Kit Quick Setup	Quick setup page when using the FR-TBK talkback kit
Conductor Setup Guide	Use this guide to configure Conductor for your school.
Conductor User Guide	A printed version of this is included with FR-ADMIN and FR-AD-KIT. It should be provided to the office manager or the person running Conductor on a daily basis.
Conductor Deployment Guide	Reference when designing or configuring the extensive capabilities of your Conductor system, also helps ensure best practices.
Conductor_client_setup.exe	Windows installer for Conductor console, Audio Tools, and Notifier.
ConductorNotifier_OSX.dmg	Mac installer for Notifier.

Conductor Example School Diagram	Overview of how a Conductor system goes together
CMP500 Configuration Guide	Use this guide to setup your CMP500 if not configured already
CM3000 Installation Guide	Use this guide to setup your master CM3000 if not configured already.
Conductor Pre-flight Checklist	For new installations, this checklist can help save time before showing up on-site
<b>Maestro</b>	
Maestro_client_setup.exe	Maestro installer for Windows
Maestro Setup Guide	Use this guide to configure Maestro for your school
<b>Server</b>	
campus-control-conductor-cm800si-update.zip	Script for updating the server to support the CM800Si Stream Amplifier
conductor_icr_01_update_and_instructions.zip	Script for updating the server to support the ICR-01 Smart Receiver
DRS5000 Setup Guide	Use this guide to setup your server on a new installation or for setting up new features like Time Sync, DRS Recovery, etc.

## How to upgrade to the latest software

First you'll need to determine which version of Conductor you have.

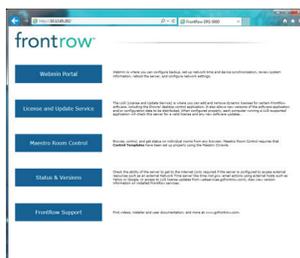
1. Are you already running Conductor 2.0 or later? If so, proceed to the section "Upgrading from Conductor 2.0." If not, proceed to step 2. Here's how to tell if you are running Conductor 2.0:

### Conductor console



Check the "About" screen in the Conductor console. It should say version 2.0.0.1.

### Server Home Page



Go to the index page of your server. (i.e. <http://192.168.1.99>). If the home page of the IP address of your server looks like this, you are running Conductor 2.0.

### Server with FrontRow bezel



If your server has the FrontRow bezel, you are running Conductor 2.0.

2. Do you have Webmin on your server? You can check for Webmin by going to the IP address of the server, followed by "10000". For example: <http://192.168.1.99:10000>. If you do not have Webmin, contact FrontRow technical support to assist with your upgrade. If you have Webmin, proceed to the section "Upgrading from Conductor 1.3.x."

## Upgrading from Conductor 1.3.x

You'll need to update the server, Conductor console, Audio Tools, and Notifier:

1. Create a backup in the Conductor and Maestro client applications from the Tools menu. (See User Guides).
2. Exit Conductor and Notifier on the Admin Station PC. Exit notifier by right-clicking on the app in the Windows tray (the tools in the lower right hand corner of the screen) and selecting Exit.
3. On the Admin Station, run the **Conductor\_client\_setup** installer and follow the installation instructions. Install Conductor console, Audio Tools, and Notifier.
4. Run the **Maestro\_client\_setup** installer to install the new version of Maestro (typically on the technology director's computer).
5. Optional: Install Conductor Notifier standalone for Mac or Windows on any additional user's computers who wish to receive Conductor Calls or Alerts (typically the Principal will want to receive Alerts on their PC/Mac).
6. Insert the Flashback USB into the DRS5000 and run the upgrade utility (see "**Upgrading the Server**" section).
7. Configure automated backup using the FrontRow Flashback drive or other flash drive, then run a backup (See **DRS5000 Setup Guide**)
8. Configure Time Sync for CB6000 displays (See **DRS5000 Setup Guide**)
9. Optional: If you are adding FrontRow Smart Receivers or CM-800Si to your network you may also need to run the scripts on the server to add support for these devices. Extract the files from **campus-control-conductor-cm800si-update.zip** or **conductor\_icr\_01\_update\_and\_instructions.zip** and follow the instructions in the PDFs.
10. Add school maps to Conductor and assign hotspots (See **Conductor Setup Guide**)

**(NOTE:** It does not matter which order you install the client and server so long as both are updated. The new version of the client does not work with the old server (and vice-versa).

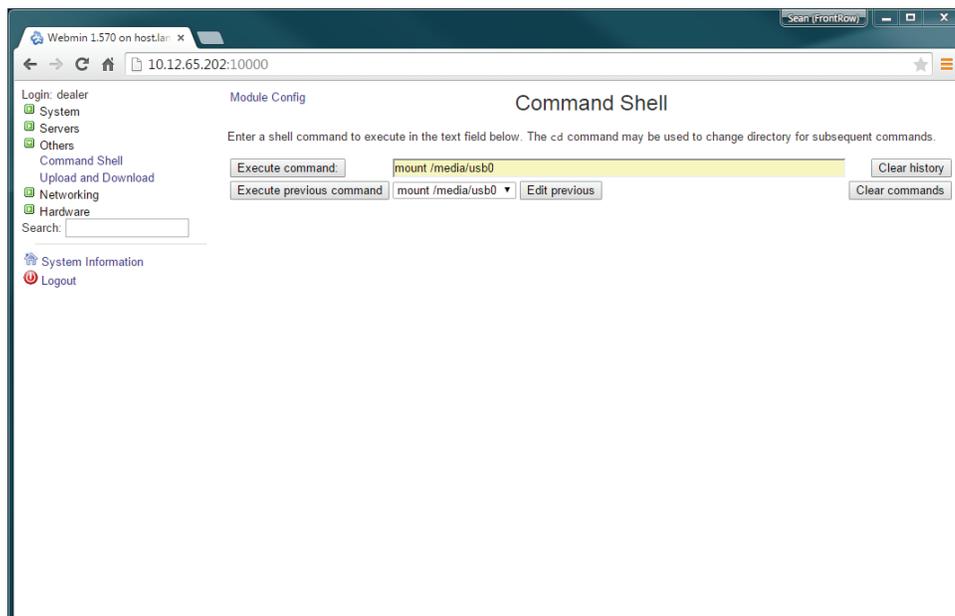
## Upgrading the Server

Note that your system must have Webmin in order to be updated on site (see: “**How to Upgrade**” section). Webmin is the administrative web interface to the server, and is accessed by going to the IP address of the server followed by “:10000” (ie: `http://192.168.1.99:10000`).

For systems with Webmin:

1. Insert the USB drive with the DRS-update file into any USB port on the DRS5000 (if using your own USB, make sure the file named `DRS-update_20150514` is at the root level of the USB drive, and that the USB is formatted as FAT32).
2. Open a browser and enter the URL for Webmin on the target DRS5000: `http://<ip-address>:10000/`
3. Login as ‘dealer’.
4. Navigate to the **Others** section and choose **Command Shell**
5. In the **Execute Command** field enter the following exactly:  
`mount /media/usb0`
6. Press the **Execute Command** button (or press Enter on your keyboard). The result should be displayed with no indication of error. If you get an error message, reboot the server and try again. The USB drive must be formatted as FAT32 or it will not be able to mount.
7. In the same **Execute Command** field enter the following exactly:  
`perl /media/usb0/DRS_update*`
8. Press the **Execute Command** button.
9. The update will take a minute or two to complete. Once complete you will see the log. Review the log to ensure everything installed properly.
10. Under the **System** section, go to **Bootup and Shutdown** and reboot the server (at the bottom of the page).

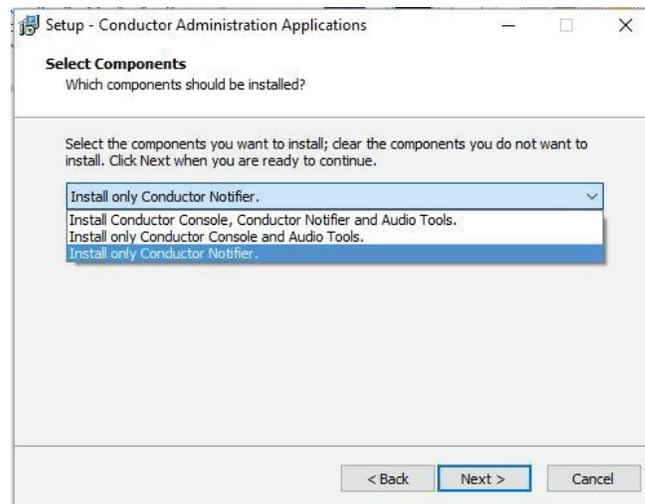
**NOTE:** Advanced users could initiate this upgrade remotely using the Upload and Download function of Webmin to upload the updater file to the server then running the update locally.



## Upgrading from Conductor 2.0

If you already have Conductor 2.0, upgrading to the latest Notifier is easy.

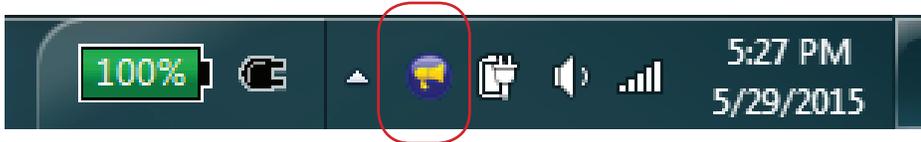
1. On the Admin Station, run the **Conductor\_client\_setup**, and follow the installation instructions. When prompted for which components to install, choose "Install only Conductor Notifier." If you choose to install the complete Conductor package (Conductor console, Notifier, and Audio Tools), it will change the Conductor console from version 2.0.0.1 to version 2.0.0.2, but there are no new features or fixes in 2.0.0.2.



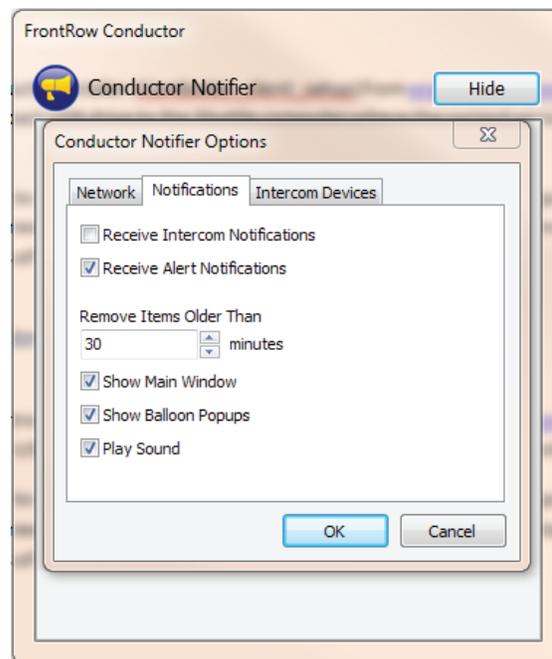
2. Also update any additional machines that are running Notifier for Windows with the new Notifier.
3. If you are adding FrontRow Smart Receivers or CM-800Si to your network you may also need to run the scripts on the server to add support for these devices. In the Server folder on your Flashback drive or in the ZIP file, extract the files from **campus-control-conductor-cm800si-update.zip** or **conductor\_icr\_01\_update\_and\_instructions.zip** and follow the instructions in the PDFs.

## Notifier

Right-click on Notifier to select Options or Exit the app.



The Admin Station PC should be set to receive Intercom and Alert Notifications, but other administrators may choose only to receive alerts on their PC/Mac computers.



## Installing over previous versions

Conductor console, Notifier, Audio Tools, and Maestro console can be installed directly over the previous releases of the applications (no need to uninstall first). If your existing files are in the **Calypso** folder (for example, Conductor 1.3) the new files will be installed in that location, otherwise they will be placed in the **FrontRow** folder. If installing on a new system the files will be placed in a FrontRow folder by default. If you choose to uninstall Conductor or Maestro first and you also opt to remove the profile/setting data when prompted, you will need to configure your server list and Notifier options again.

## Other Notes

In the Audio Conversion & Recording Tools, file names can only contain letters, numbers, and the underscore character in order to be converted. The application will prompt with a message if you try to import a file with other characters in the name.