

A person is silhouetted against a bright, hazy sunset sky as they stand on the peak of a dark, rugged mountain. The mountain's ridges and valleys are visible, with some sparse vegetation on the slopes. The overall atmosphere is serene and majestic.

# MANAGED DRE

INSTALLING AND CONFIGURING  
A MANAGED DRE

# MANAGED DRE COMPONENTS

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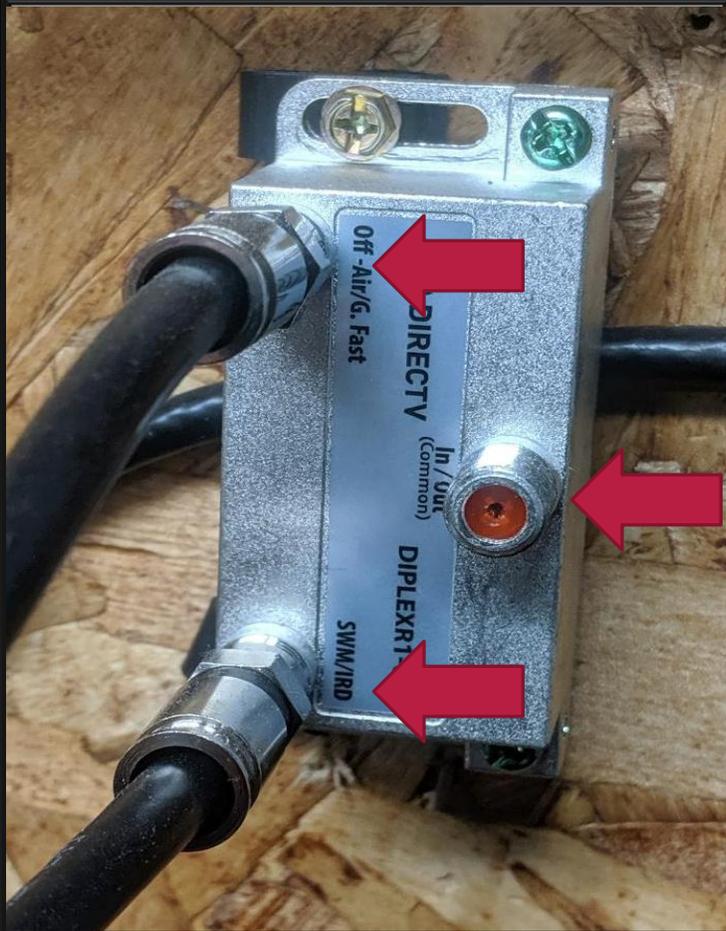
- When installing a Managed DRE there are several additional components that will be needed in addition to the components used in a standard DRE.
  - DECA – This will convert the information from the switches used in a Managed DRE to coax and vice versa in order to facilitate communication from the STB's to the MCS
  - Diplexer – This will combine the SWiM signal and the signal from the DECA onto room lines
  - Band Stop Filter – These will prevent the MOCA network from cross talking with other rooms that are on the same SWiM
  - MDF Switch – This switch will connect all IDF switches as well as facilitate the communication to the MCS server. If an LCI is being inserted it will also allow for them to be injected via this switch
  - IDF Switch – These will connect the DECA's back to the MDF to then be sent to and read by the MCS
  - MCS – This will allow the configuration and addition of extra features to be sent to the STB's
  - VPN – Unlike a normal DRE we can use a VPN to be able to remotely access and control the managed system

# DECA LIGHTS



- The DECA's will give their status via the lights on the front. The following lights mean the following:
- Solid Green – This indicates that the DECA has connected to the MOCA network and is operating at optimal speeds
- Solid Orange – This indicates that the DECA has connected to the MOCA network but is operating below optimal speeds
- Blinking Orange – This indicates that the DECA is searching for the MOCA network but has not been able to connect

# DIPLEXER



- The Diplexer will allow you to combine the DECA and the SWiM signal onto the lines running to the rooms.
- The Off-air port is where you will connect the DECA
- The SWiM port is where you will connect the SWiM
- The In/Out port will run to the splitter feeding the rooms

# MCS SERVER

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When installing a Managed DRE you will need to install the MCS preferably in the same location as the property's PMS server. If the property would like to integrate the 2 systems, they will need to be connected to each other via a serial cable.

There are two main server that we use. We use the Dell T310 desktop server or a rack mount server to be installed in networking racks. The rack mount server takes up 1RU of space.

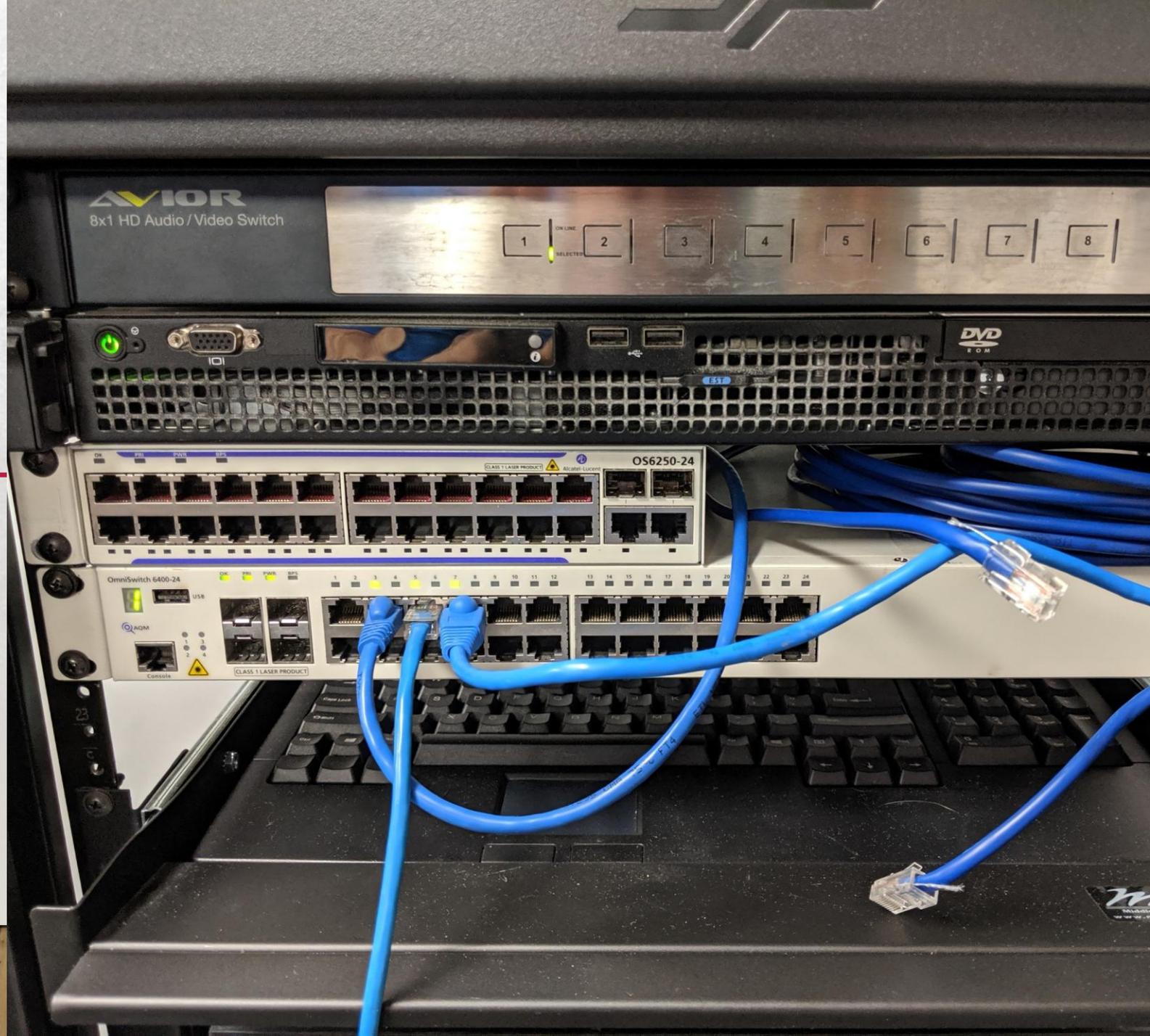


# ALCATEL LUCENT SWITCHES MDF/IDF

We will also be installing the switches that will be used to facilitate communications from the STB's to the MCS as well as allow for the injection of LCI channels and the ability of the MCS to connect to the internet via a VPN.

The 2 main types of switches we will be dealing with are the MDF switch and the IDF switches. The MDF switch will be connected to the MCS as well as any external devices being used to inject LCI channels such as the PDI00.

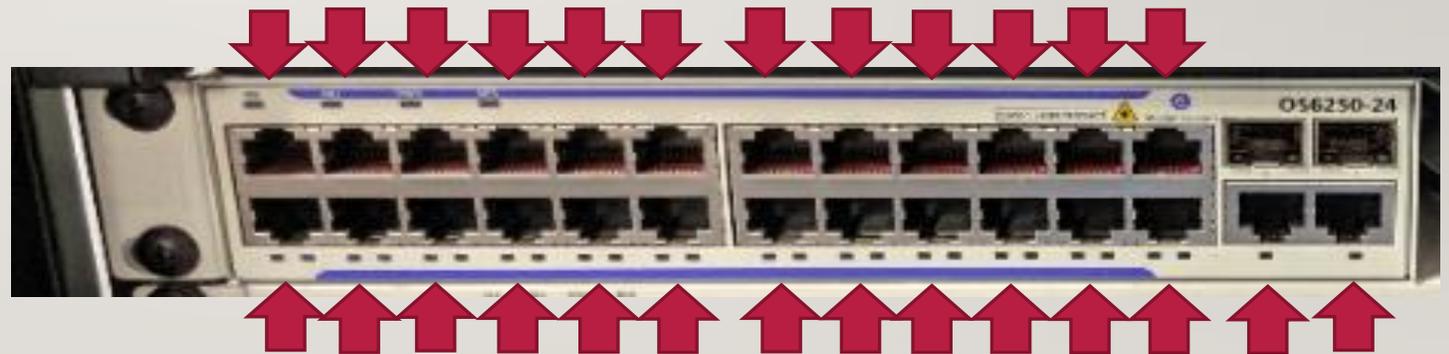
The IDF switches will be in the closets that contain the room lines and will need to have an ethernet cable pulled from their location back to the MDF



- When installing an IDF into a closet you will need to connect to the correct ports in order to facilitate proper communication between devices.
- A typical IDF switch has the following port allocations:
  - 1-24 User Port – These ports are used to connect the DECA's to the IDF
  - 25 – Link to MDF – This port is used to link the IDF back to the MDF switch. On this type of switch this is the preferred port to link back to the MDF
  - 26 – Link to MDF 2 – This port is also used to connect the IDF back to the MDF switch

## IDF PORTS

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# ADDITIONAL IDF CONFIGURATION

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- In some installs you may encounter a smaller IDF switch that only has 10 ports instead of 26. In this instance the ports would be as follows:
  - Port 1-9 User Port – These will be used to connect DECA's to the managed network
  - Port 10 Link to MDF – This is the port used to link the IDF back to the MDF switch
- As you can see in a smaller switch there is only 1 port that will link the IDF back to the MDF. If any other port is used to link the two switches it will not work

# MDF OMNISWITCH 6400-24 COPPER PORTS

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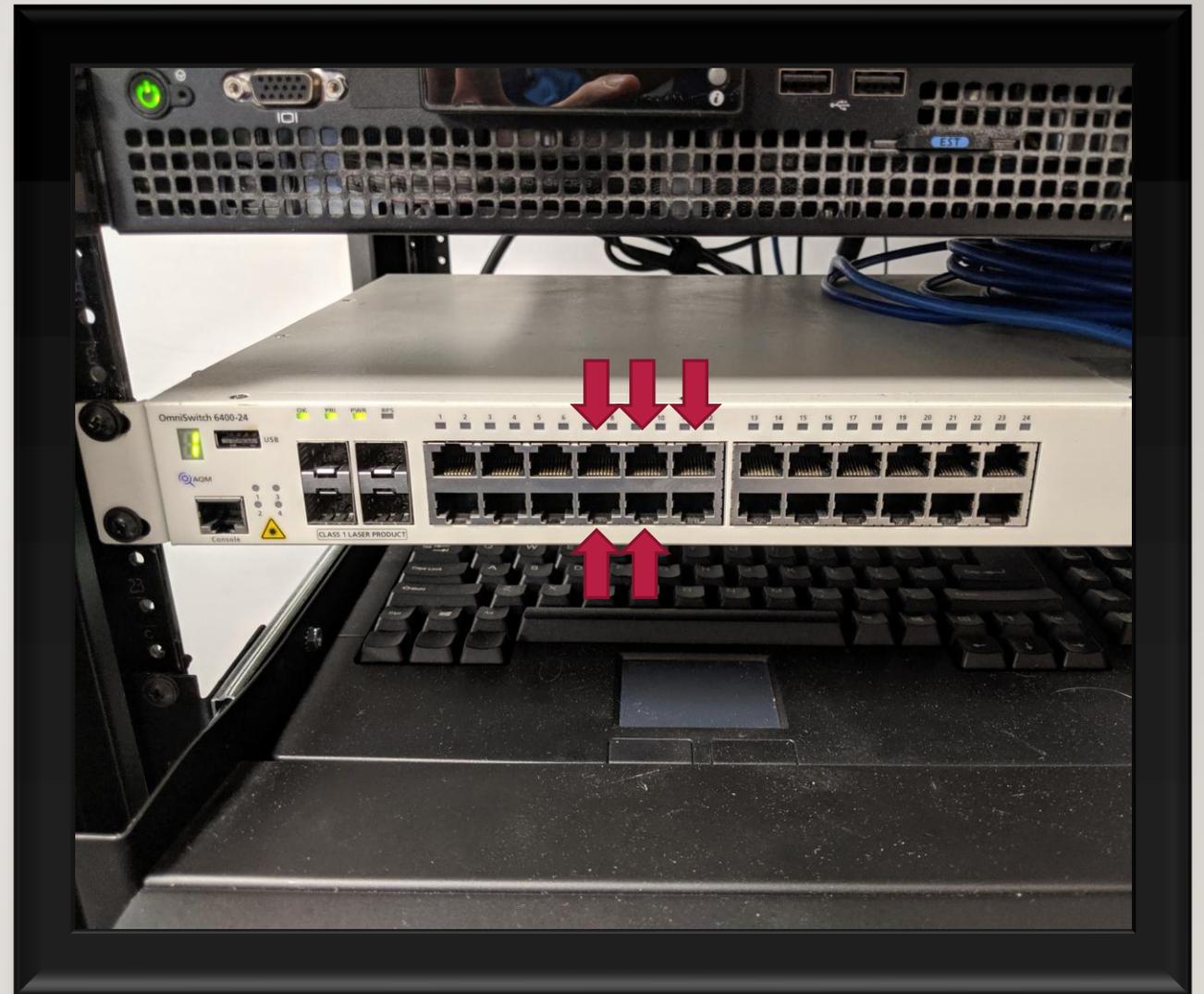
- Unlike an IDF switch the ports on the MDF have different functions than just to link the two switches and allow DECA's to be connected. A typical MDF switch will have the following configuration:
- Port 1-3 are un-used
- Port 4 is used to connect the VPN to the managed system
- Port 5 is used to connect the cinema server to the manages system if the property has VOD. This port can also be used to insert an LCI channel using a PD100
- Port 6 is used to connect the MCS to the network allowing it to see and control all receivers that are on the managed network



# MDF OMNISWITCH 6400-24 COPPER PORTS CONT.

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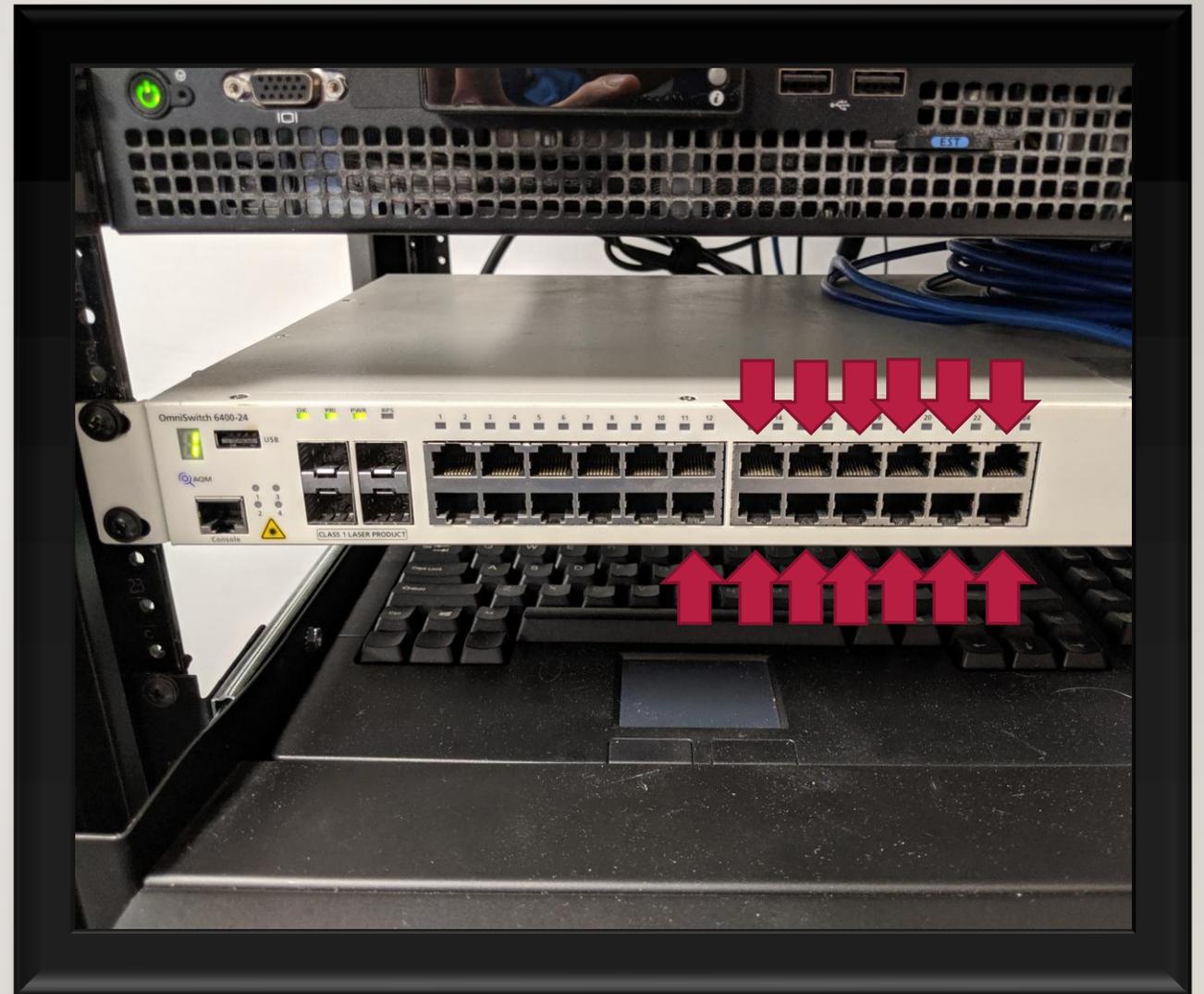
- Port 7 This port is used to link the Hotels MCS workstation to the managed network. This port can be connected to a desktop or laptop to be used to access the MCS from a different location
- Port 8 Test Access. This port is used for troubleshooting of the network
- Port 9-11 These ports are used for the integration of IP cameras. They can also be used to insert an LCI using a PD100



# MDF OMNISWITCH 6400-24 COPPER PORTS CONT.

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- Ports 12-24 These ports are used to link IDF switches to the MDF. Its does not matter which port you connect each IDF to as long as they are connected to these ports.

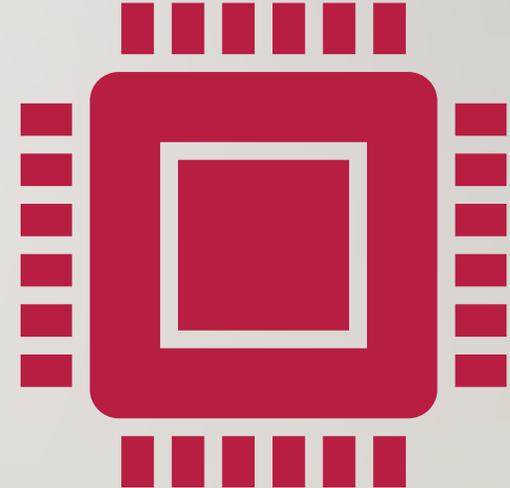


# MDF 6400-U24 SWITCH PORTS

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There are other model of MDF switches that you may encounter. The 6400-U24 is the fiber version of the switch and its ports are designated as such:

- Port 1 Used to link the MCS server to the network
- Port 2 Used to link the cinema server if the property has VOD. Can also be used to connect a PD100 to add an LCI channel
- Port 3 This port is not used
- Port 4 Used to connect a VPN
- Port 5 Used to connect an external workstation for the property to access the MCS
- Port 6 This port is not used
- Port 7 Used to connect an external workstation for the property to access the MCS
- Port 8 This port is not used
- Port 9-11 Used to connect IP cameras to the network. Can also be used to connect PD100's to add LCI channels into the system
- Port 12-24 Used to connect IDF switches



# MDF 6450-U24 SWITCH PORTS

There is also the 6450-U24 MDF switch that you may encounter, and the port layout looks like this:

- Port 1-22 Used to link IDF switches
- Port 23 Used to connect a VPN
- Port 24 Used to connect the MCS server to the network
- Port 25 This port is not used
- Port 26 Used to connect the cinema server if the property has VOD. Can also be used to connect a PDI00 to insert an LCI channel.

# MCS WORKSTATION PORT

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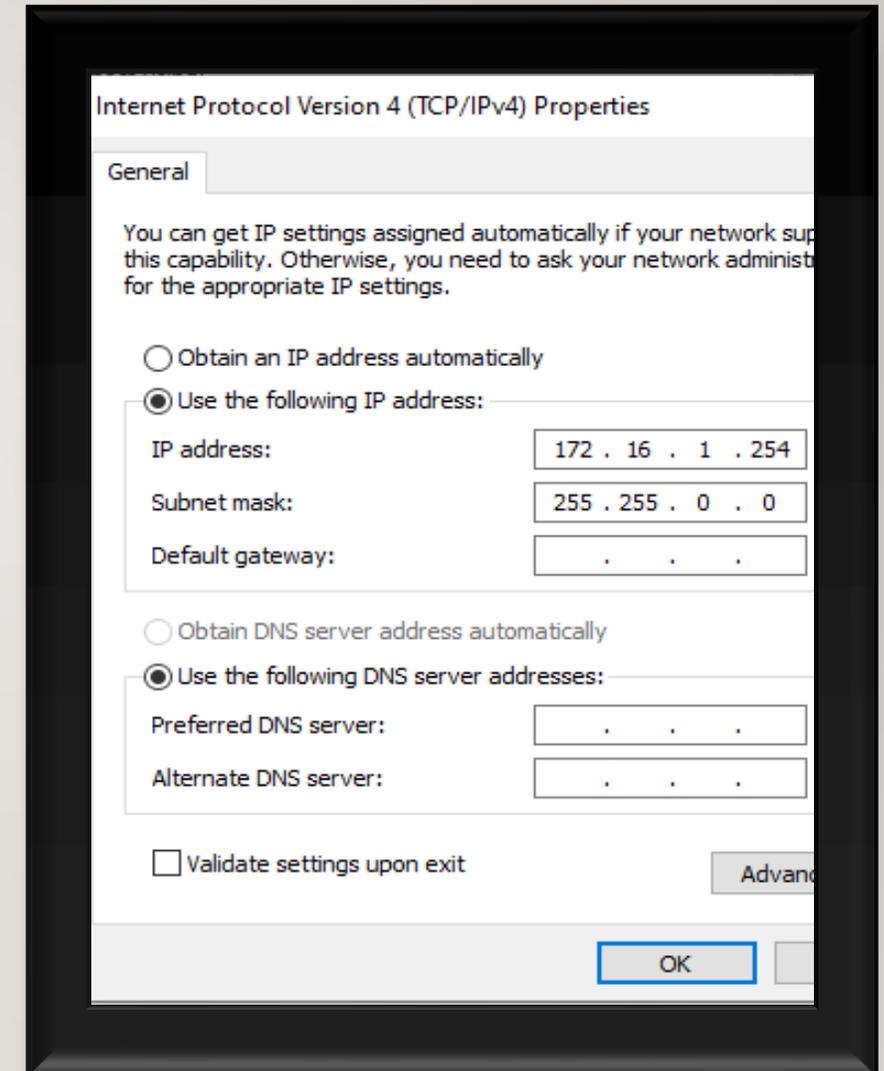
The workstation port can be used to allow the property to access the MCS from a different location by connecting a desktop or laptop and changing the IPv4 settings to be on the same network as the MCS.

To do this connect the computer to the MCS workstation port.

Then open the computers IPv4 setting and change them to the following values:

- IP Address: 172.16.1.254
- Subnet Mask: 255.255.0.0

You should then be able to access the MCS via the IP address 172.16.1.11



# LOGGING INTO THE MCS

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Once you have connected the Managed Dre's network you will need to configure the MCS. To do this you will first need to login to the MCS server. Once you have turned on the MCS server you will need to login.

- The Username should be auto selected as dreserver
- The password to login is also dreserver



## ACCESSING THE MCS SOFTWARE

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Once you have logged onto the MCS server you will need to open the Firefox web browser and navigate to 172.16.1.11.

- Note that sometimes when you have first started the MCS server it can take up to 10 minutes before you will be able to access the MCS software.





# DIRECTV Management Control System

## LOGGING INTO THE MCS SOFTWARE

- Once you can access the MCS software you will need to login.
- The username is mcsadmin
- The password is dtvmcsgo

Login	
Username:	<input type="text" value="mcsadmin"/> ←
Password:	<input type="password" value="....."/> ←
<input type="button" value="Login"/>	

# MCS SOFTWARE HOMEPAGE

ONCE YOU HAVE LOGGED INTO THE MCS SOFTWARE YOU WILL BE TAKEN TO THE HOME PAGE.

FROM HERE YOU WILL BE ABLE TO SEE THE RECEIVERS THAT HAVE REPORTED BACK TO THE MCS

YOU WILL ALSO BE ABLE TO MAKE CHANGES TO THE REPORTING RECEIVERS FROM THIS PAGE

Not secure | 172.16.1.11/sbbmgr/sbbmanager/

alander Meraki Dashboard... UniFi DIRECTV Monitorin... Portal | WAV Support Mitel Login DRE Support LG Cloud LMS Training My Profile | Telkone

**DIRECTV** **DIRECTV Management Control System**

Location: **Comfort Inn and Suites Spokane, WA** Logged in as: **mcsadmin** | [Administrator Settings](#) | [View Logs](#) | [Change Password](#) | [Log Out](#)

Commands	Groups	Defaults	Channel Lists
Select	Select	Select	Select
<a href="#">Go</a>	<a href="#">Assign</a>	<a href="#">Apply</a>	<a href="#">Apply</a>

Commands: [Check-In](#) [Check-Out](#) [Reset Defaults](#) Last Updated: 9/19/2019 1:29:34 PM

Room [PMS ID]	RID	IP	Signal	Version	Model	M	DS	Active
<input type="checkbox"/> All								112/114
<input type="checkbox"/> Unassigned								
<input type="checkbox"/> floor 1								
<input type="checkbox"/> Floor 2								
<input type="checkbox"/> Floor 3								
<input type="checkbox"/> Floor 4								

Auto-refresh if idle for 10 minutes Total Receiver Count: 114

Version: 3.97 © DIRECTV 2010-2015

Commands	Groups	Defaults	Channels
Select <input type="text"/> <input type="button" value="Go"/>	Select <input type="text"/> <input type="button" value="Assign"/>	Select <input type="text"/> <input type="button" value="Apply"/>	Select <input type="text"/> <input type="button" value="Apply"/>

Commands:    Last Updated: 9/19/2019 1:29:34 PM

Room [PMS ID]	RID	IP	Signal	Version	Model	M	DS			Active
<input type="checkbox"/> All						<input type="button" value="Refresh"/>	<input type="button" value="Refresh"/>			112/114
<input type="checkbox"/> Unassigned										
<input type="checkbox"/> floor 1										
<input type="checkbox"/> Floor 2										
<input type="checkbox"/> Floor 3										

## HOME PAGE OPTIONS

On the home page you will find the following options:

- Administrator Settings – Clicking this link will take you to the admin setting which will have options not available from the home page
- View Logs – Clicking this link will take you to the logs page of the MCS this log will record events such as checkout or VOD purchases
- Change Password – This link will open the change password window where you will be required to enter the old password as well as create a new password. This should not be done unless specifically told to
- Logout – Clicking this link will log you out of the MCS software

The view logs page will show you events such as checkout when the MCS has been integrated with the property's PMS.

This can be helpful in performing a PMS integration as you will be able to see that communication is happening between the 2 systems.

## VIEW LOGS LINK

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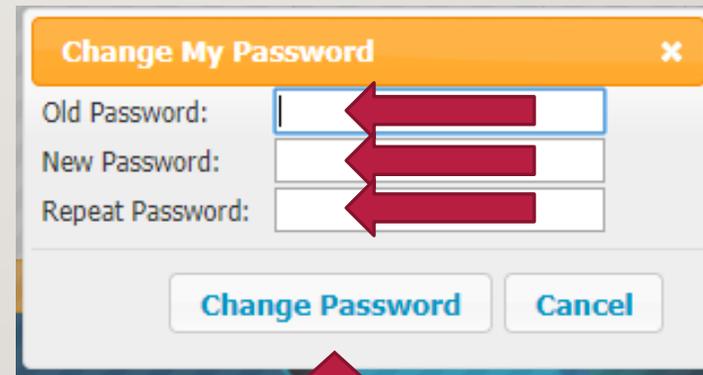
Time	User	Event	Message	Event Information						
9/19/2019, 1:29:33 PM		login	mcsadmin has logged in.	Login successful.						
9/19/2019, 1:13:45 PM		pmsCheckOut	Sending Check-Out to Room [424]	Failures: 0 <table border="1"><thead><tr><th></th><th>RID</th><th>Failure</th></tr></thead><tbody><tr><td>✓</td><td>0368-2960-6957</td><td>Receiver responded with [200: OK.]</td></tr></tbody></table>		RID	Failure	✓	0368-2960-6957	Receiver responded with [200: OK.]
	RID	Failure								
✓	0368-2960-6957	Receiver responded with [200: OK.]								
9/19/2019, 1:13:14 PM		pmsCheckOut	Sending Check-Out to Room [405]	Failures: 0 <table border="1"><thead><tr><th></th><th>RID</th><th>Failure</th></tr></thead><tbody><tr><td>✓</td><td>0368-2912-0777</td><td>Receiver responded with [200: OK.]</td></tr></tbody></table>		RID	Failure	✓	0368-2912-0777	Receiver responded with [200: OK.]
	RID	Failure								
✓	0368-2912-0777	Receiver responded with [200: OK.]								

# CHANGE PASSWORD LINK

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When you click on the change password link you will have the change password window open where you will be asked for the following:

- Old Password – This is the current password to login to the MCS software
- New Password – This is the password you would like to be used to login to the MCS software
- Repeat Password – This must match the password in the New Password field and is a safety measure to make sure that you don't mistype and lock yourself out of the MCS software
- Once you have filled out all 3 fields click the Change Password button to make the changes



Change My Password

Old Password:

New Password:

Repeat Password:

Change Password Cancel

## HOME PAGE COMMAND DROP-DOWN

If you click on the drop-down window under the commands section, you will have the following options:

- Reboot – This will send a command to reboot to the selected receivers
- Reset Defaults – This will tell receivers to reset their active defaults. This is needed when changing the defaults that the receivers have
- Send Message – This will cause a message to appear on the selected receivers for varying times depending on what is selected
- Set Room Number(s) – This will allow you to assign a room number to the selected receivers making them easier to identify their location in the property
- After you have selected the desired command and desired receivers click the Go button next to the drop down to apply the command

ation: **Comfort Inn and Suites Spokane, WA**

**Commands**

Select  **Go**

Select

Reboot

Reset Defaults

Send Message

Set Room Number(s)

**All**

**Unassigned**

**floor 1**

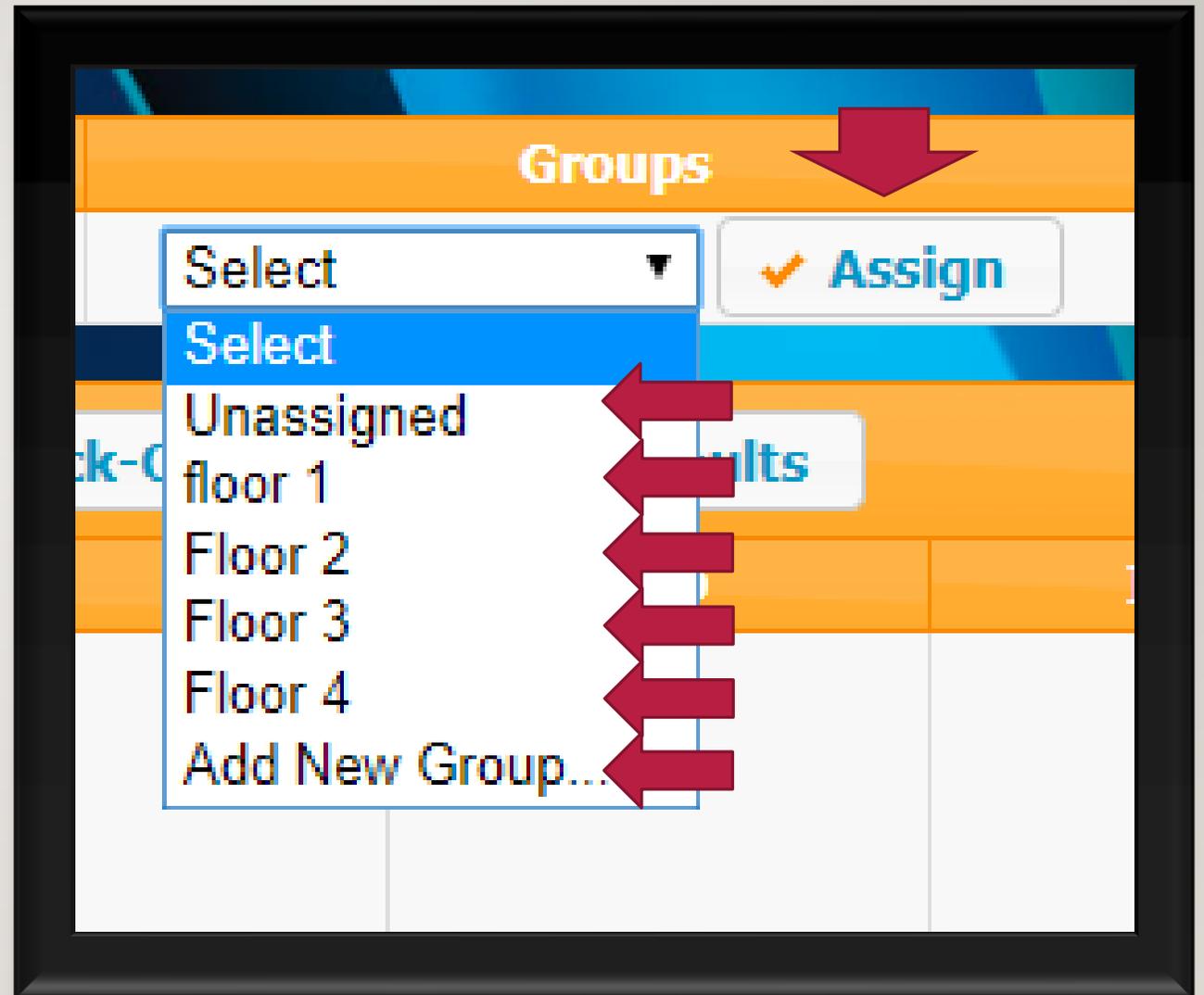
**Check-Out**

**[MS ID]**

## HOMEPAGE GROUPS DROP-DOWN OPTIONS

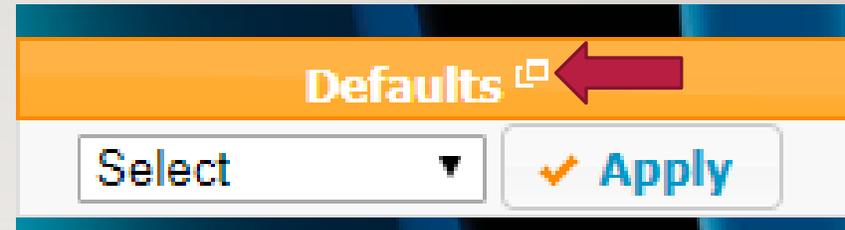
By selecting the groups drop down window you will be able to select the following:

- Unassigned – This will set the selected receivers as unassigned
- Add New Group – This will allow you to create a new group in which receivers can be set to
- Added Groups – These will appear as you use the Add New Group option to create the desired groups
- Once you have set the desired group click on the Assign button to set the group desired



# HOME PAGE DEFAULTS CUSTOMIZATION

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- You can change the defaults for the receivers connected to a Managed Dre. To do this you will need to click on the small double box located next to the Defaults

# CUSTOMIZING DEFAULTS

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Once you have clicked on the double box next to defaults the Configure Default Settings window will appear. From here you will be able to change the following defaults:

- **Default Channel Number:** Changing this field will set the channel that you want the receiver to start on each time the Tv is turned on
- **Default Channel List:** Changing this will set the default channel list that is displayed on the receiver's guide. This will require you to create a custom channel list in order to change
- **Bar Color:** This will allow you to change the color of the bar that shows up on the DTV screen

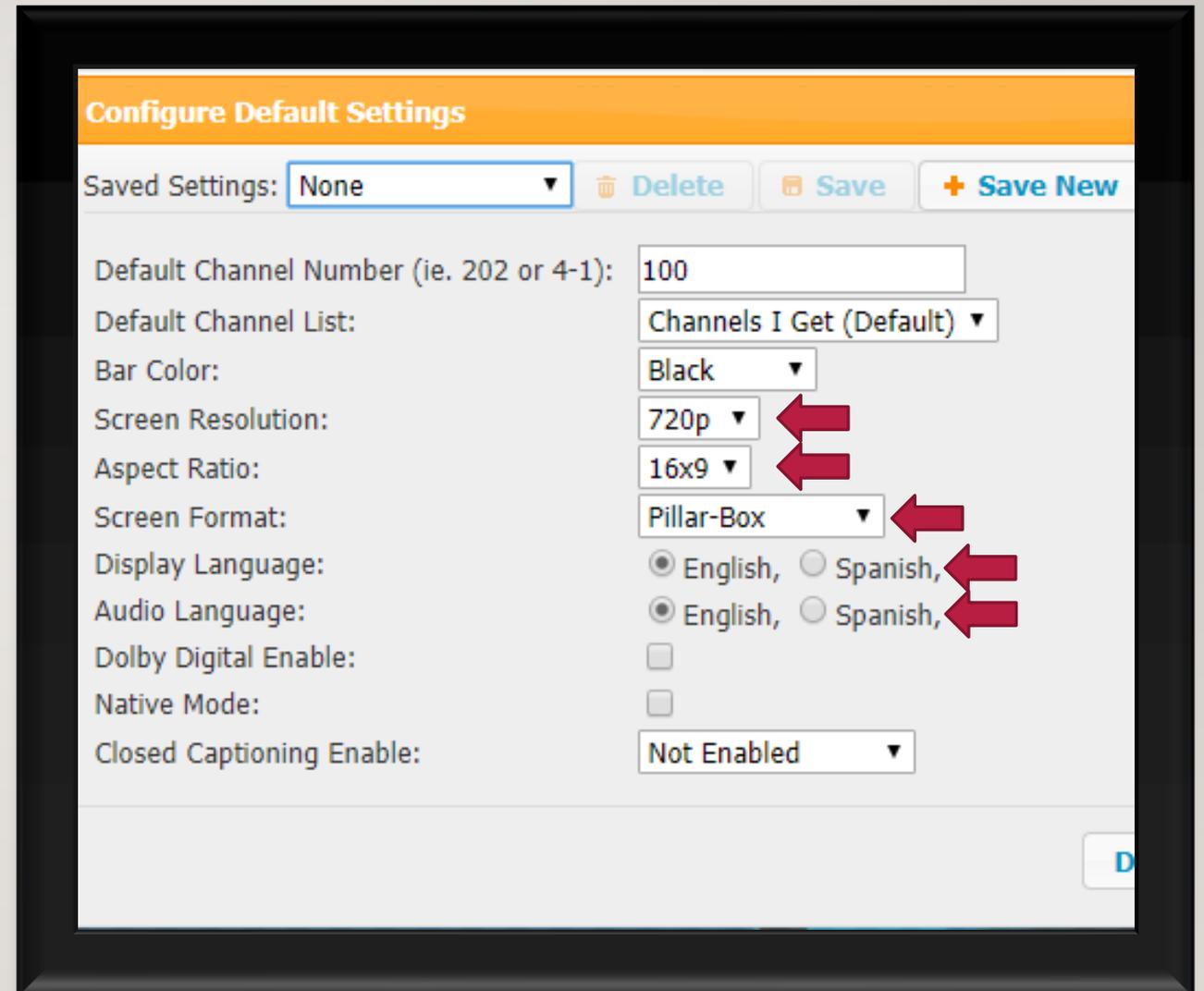
The screenshot shows the 'Configure Default Settings' window with the following settings:

- Saved Settings: None (dropdown)
- Default Channel Number (ie. 202 or 4-1): 100
- Default Channel List: Channels I Get (Default) (dropdown)
- Bar Color: Black (dropdown)
- Screen Resolution: 720p (dropdown)
- Aspect Ratio: 16x9 (dropdown)
- Screen Format: Pillar-Box (dropdown)
- Display Language: English (radio button selected)
- Audio Language: English (radio button selected)
- Dolby Digital Enable:
- Native Mode:
- Closed Captioning Enable: Not Enabled (dropdown)

Red arrows point to the Default Channel Number, Default Channel List, and Bar Color fields.

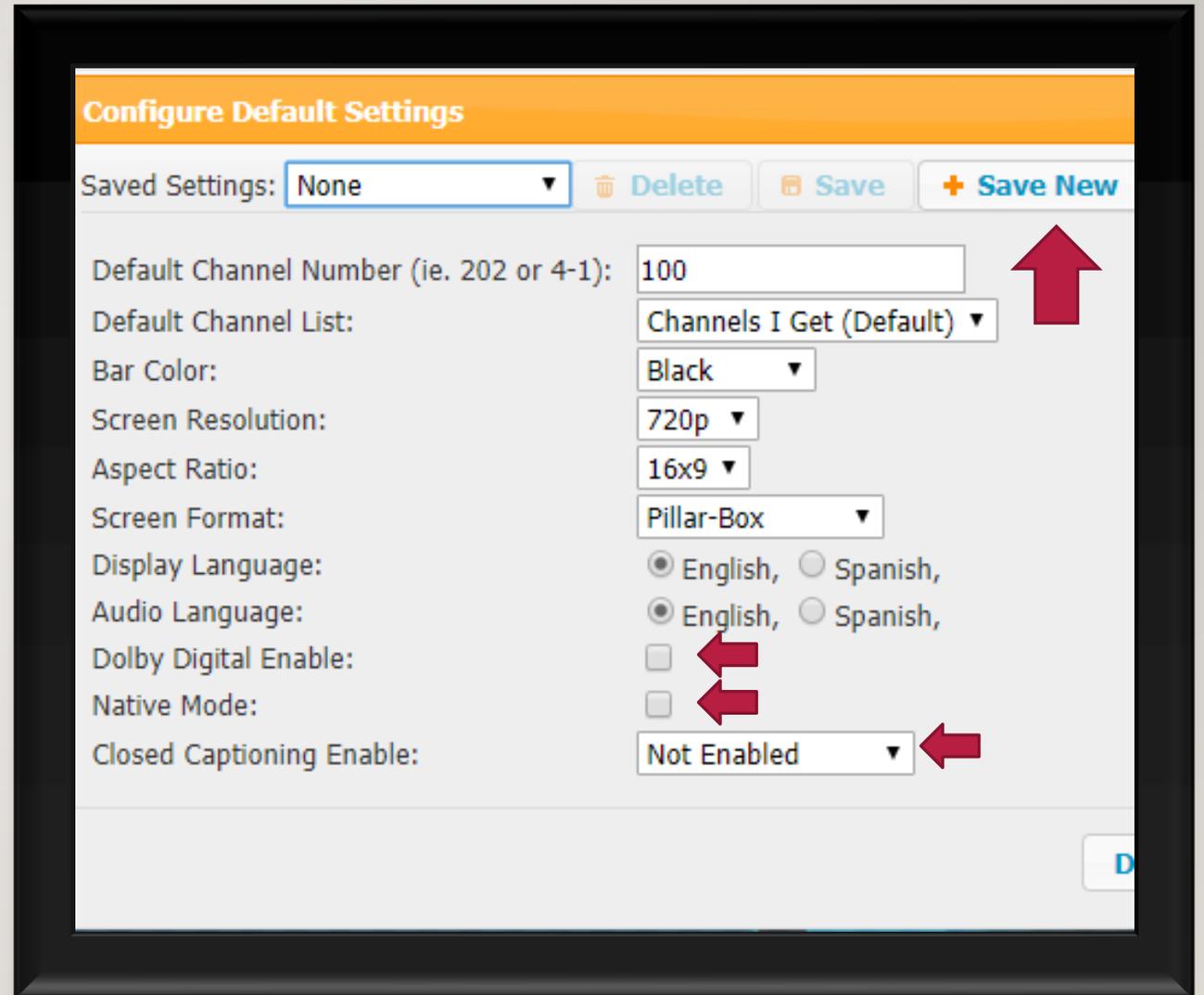
# CUSTOMIZING DEFAULTS CONT

- Screen Resolution: Changing this will allow you to set the default resolution that the receiver will change to each time they are turned on
- Aspect Ratio: Changing this will set the default aspect ratio that the receiver will default to each time the TV is turned on
- Screen Format: Allows you to set the format in which the screen menus appear
- Display Language: Allows you to set the default language for the receiver
- Audio Language: Allows you to set the default audio language



# CUSTOMIZING DEFAULTS CONT

- **Dolby Digital Enable:** By checking this box you will enable Dolby Digital Audio on the receiver. This is used for surround sound systems
- **Native Mode:** Checking this box will enable Native Mode
- **Closed Captioning Enable:** This will allow you to enable closed captioning by default removing the need to turn them on manually
- Once you have created the defaults that you would like click on the Save New button at the top and you will be asked to name your defaults. Enter a name and save your defaults



The screenshot shows a 'Configure Default Settings' window with an orange header. At the top, there is a 'Saved Settings:' dropdown menu currently set to 'None', followed by 'Delete', 'Save', and '+ Save New' buttons. The settings list includes:

- Default Channel Number (ie. 202 or 4-1): 100
- Default Channel List: Channels I Get (Default)
- Bar Color: Black
- Screen Resolution: 720p
- Aspect Ratio: 16x9
- Screen Format: Pillar-Box
- Display Language: English (selected), Spanish
- Audio Language: English (selected), Spanish
- Dolby Digital Enable:
- Native Mode:
- Closed Captioning Enable: Not Enabled

Red arrows point to the 'Default Channel List' dropdown, the 'Dolby Digital Enable' checkbox, the 'Native Mode' checkbox, and the 'Closed Captioning Enable' dropdown.

# SETTING DEFAULTS

- Once you have created the defaults you would like to set on the receivers you can click on the drop-down window below defaults and select the previously saved defaults to be sent to the receivers
- Once you have selected the desired defaults click on the apply button and the selected defaults will be sent to the selected receivers.

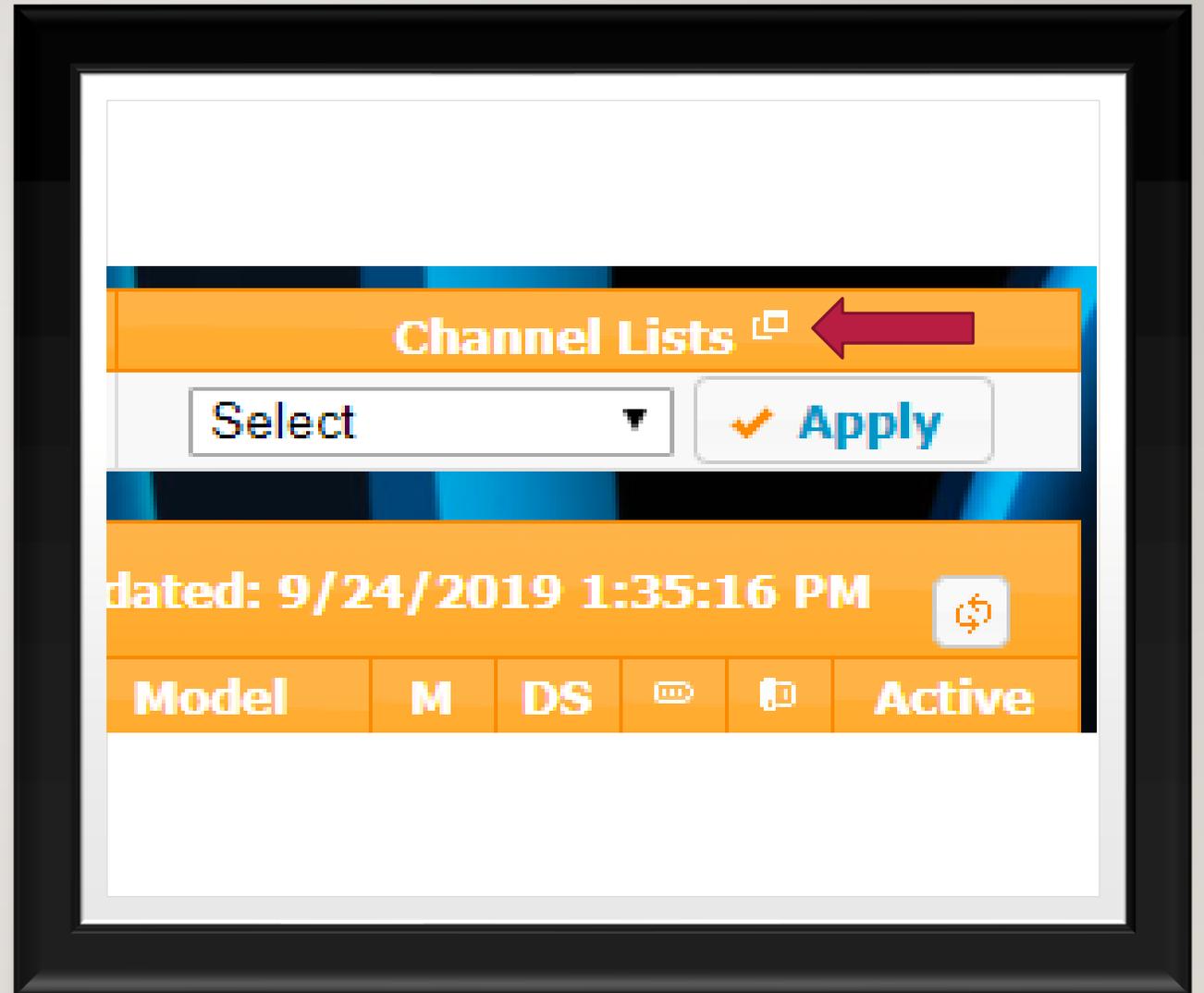




# CHANNEL LISTS CUSTOMIZATION

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Like the Defaults you can make a custom channel list by clicking on the double box symbol next to the channel list.



# CONFIGURE CHANNEL LIST

Once you have clicked on the double boxes the configure channel list window will appear. It will take a moment for the MCS to populate all the channels that the system sees. Once it has populated you will be able to create a custom channel list showing only the channels that you select in the guide. This needs to be done in order to add LCI channels to the guide as well as to remove any channels that the property does not subscribe to.

At the bottom it will indicate how many channels have been selected. Once all desired channels have been selected click on the Save New button at the top and you will be able to name your newly created channel list.

The screenshot shows a window titled "Configure Channel Lists" with a white background and an orange header. At the top, there is a "Saved Lists:" dropdown menu set to "None", and buttons for "Delete", "Save", "+ Save New", and "Print List". Below this is a list of 162 channels, each with a checkbox. The channels are arranged in three columns. A red arrow points to the "+ Save New" button. At the bottom right, there is a "Done" button. A red arrow also points to the "Selected: 0" text at the bottom left of the window.

<input type="checkbox"/> 1 WINS	<input type="checkbox"/> 2 KWGN	<input type="checkbox"/> 3 KCDO
<input type="checkbox"/> 4 KCNC	<input type="checkbox"/> 4-1 *ALERTS	<input type="checkbox"/> 5 KREG
<input type="checkbox"/> 6 KRMA	<input type="checkbox"/> 7 KMGH	<input type="checkbox"/> 9 KUSA
<input type="checkbox"/> 12 KBDI	<input type="checkbox"/> 14 KCEC	<input type="checkbox"/> 20 KTVD
<input type="checkbox"/> 25 KDEN	<input type="checkbox"/> 31 KDVR	<input type="checkbox"/> 50 KTFD
<input type="checkbox"/> 53 KETD	<input type="checkbox"/> 59 ION	<input type="checkbox"/> 70 QVCHD
<input type="checkbox"/> 70-1 HSNHD	<input type="checkbox"/> 71 AUDHD	<input type="checkbox"/> 72 JTV
<input type="checkbox"/> 73 SHOPHQ	<input type="checkbox"/> 74 SALE	<input type="checkbox"/> 75 SHOPLC
<input type="checkbox"/> 76 QVC2	<input type="checkbox"/> 77 NEW	<input type="checkbox"/> 78 LOOK
<input type="checkbox"/> 79 QVC2	<input type="checkbox"/> 80 GETIT	<input type="checkbox"/> 81 RENEW
<input type="checkbox"/> 82 HOME	<input type="checkbox"/> 83 WOW	<input type="checkbox"/> 84 IDEA
<input type="checkbox"/> 85 SAVE	<input type="checkbox"/> 86 VALU	<input type="checkbox"/> 87 DEALS
<input type="checkbox"/> 88 BEST	<input type="checkbox"/> 89 MALL	<input type="checkbox"/> 90 LILS
<input type="checkbox"/> 91 FRESH	<input type="checkbox"/> 92 CRAVE	<input type="checkbox"/> 95 CSHP
<input type="checkbox"/> 97 CASH	<input type="checkbox"/> 98 IACHD	<input type="checkbox"/> 99 XTRA
<input type="checkbox"/> 100 DTV	<input type="checkbox"/> 101 AUDHD	<input type="checkbox"/> 111 IACHD
<input type="checkbox"/> 116 *DTV	<input type="checkbox"/> 122 PPV	<input type="checkbox"/> 147 CINEHD
<input type="checkbox"/> 152 CINEHD	<input type="checkbox"/> 156 CINEHD	<input type="checkbox"/> 158 *CINEHD
<input type="checkbox"/> 160 CINE	<input type="checkbox"/> 161 CINE	<input type="checkbox"/> 162 CINE

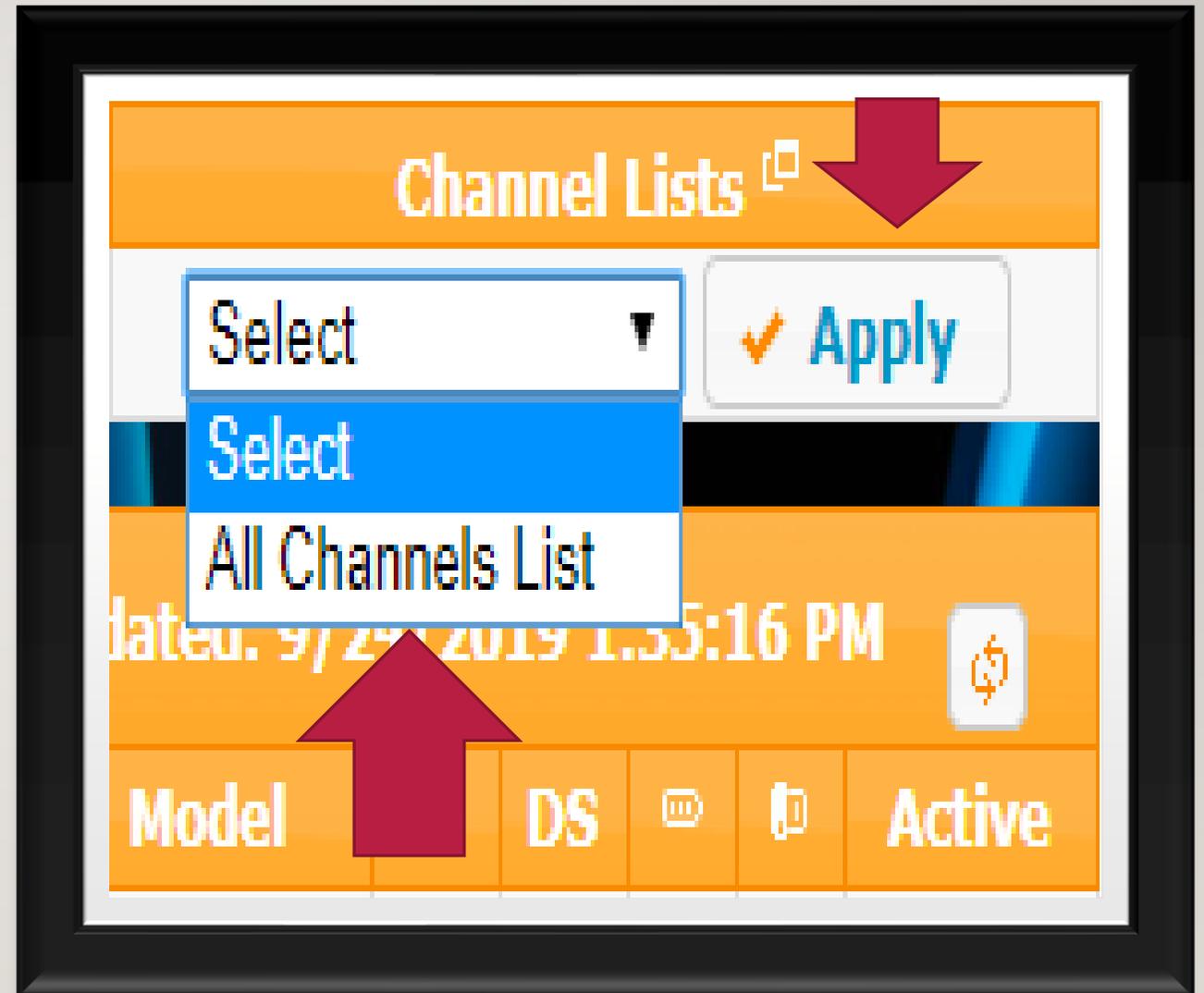
Note: Channel Lists may become stale over time. They may refer to channels that have moved, or miss new channels that have been added, etc. Please refresh/re-save channel lists periodically. The channels may still be accessible if the viewer directly types in the channel number.

Selected: 0

# APPLYING CHANNEL LIST

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- Once you have created your custom channel list you can select the desired receivers and then using the drop down under channel list select the list you would like to send to the receivers.
- Once the desired channel list has been selected click on the apply button and the MCS will send the channel list to all selected receivers



# ADDITIONAL HOME PAGE INFORMATION

On the right-hand side there are also several icons that can be clicked:

- By clicking these arrows you will refresh the receiver list. Any receivers that have reported but have not shown up yet will be populated
- By clicking the arrows under the M column the MCS will ask the receiver to report if they are in managed mode or un-managed mode
- By clicking the arrows in the DS column this will send a request for the receivers to indicate whether or not their defaults have been configured
- By clicking the gear icon in the bottom right you will be able to customize the amount of information that is displayed on the home screen

Updated: 9/25/2019 3:28:57 PM

Model	M	DS			Active
					78/100

Total Receiver Count: 100 

# CONFIGURE RECEIVER TABLE COLUMNS

When clicking on the gear on the home page you will be able to customize what information is show in the home page. You can choose to show more or less information depending on what you would like to be readily available.

### Configure Receiver Table Columns

Drag items from one column to another by grabbing the handle on each item.

**Show:**

- Room Name (mandatory field)
- Receiver ID (RID)
- IP Address
- Signal Strength
- Software Version
- Receiver Hardware Model
- Receiver Management Mode Configuration (M)
- Receiver Default Settings Configuration (DS)
- Battery Status
- USBDRIVE
- Active Status

**Hide:**

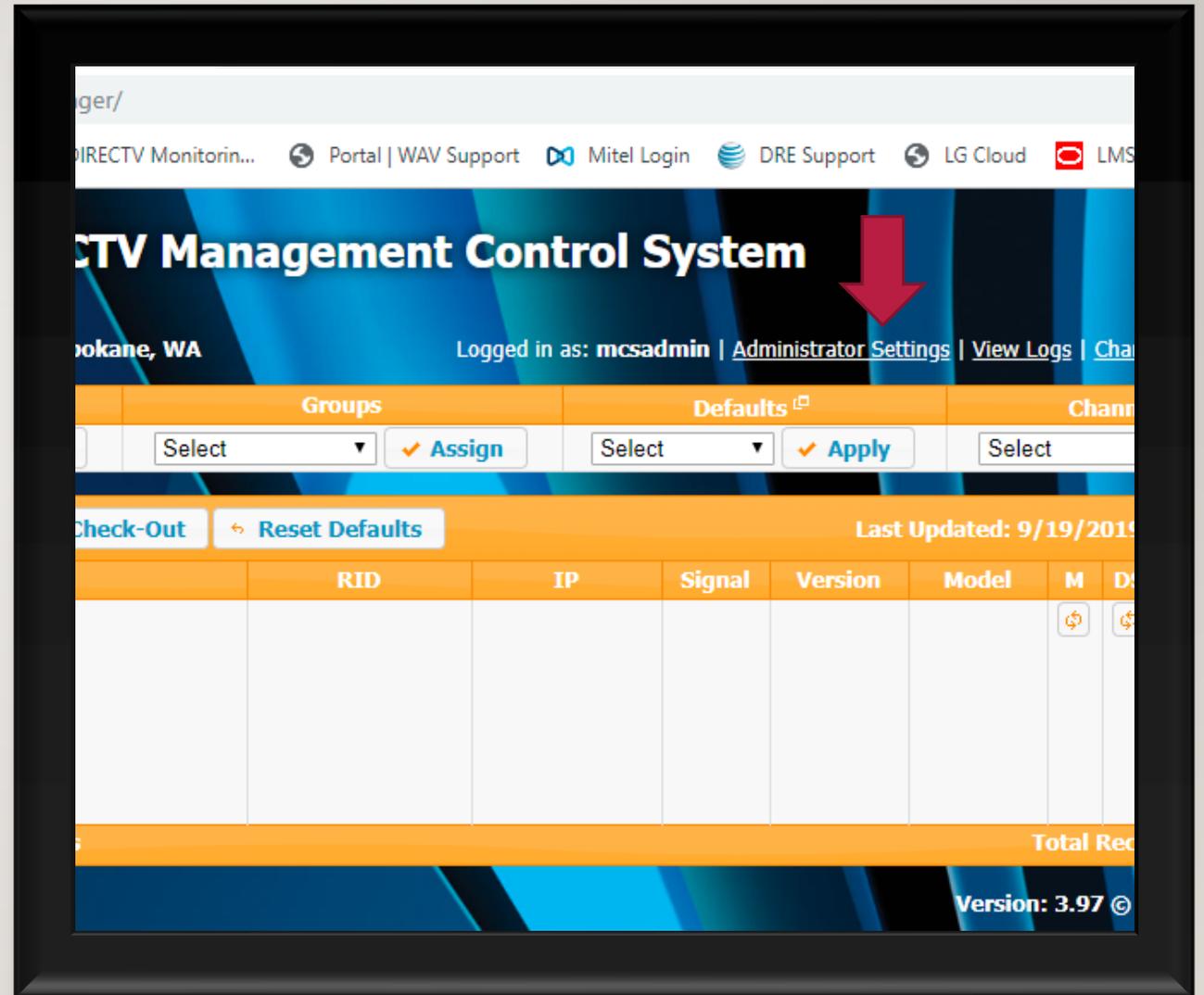
- Access Card ID (CAM)
- Switch Type (ST)
- SWM Channels (SC)
- SWM Serial (SS)
- Cinema Enabled

**Accept** **Cancel**

# ADMINISTRATOR SETTING LINK

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By clicking on the Administrator Setting link you will be taken to the Admin home page. From here you will have additional options and control over the MCS that are not present on the home page.



The screenshot shows the MCTV Management Control System administrator interface. The top navigation bar includes links for DIRECTV Monitorin..., Portal | WAV Support, Mitel Login, DRE Support, LG Cloud, and LMS. The main header displays "MCTV Management Control System" with a red arrow pointing to the "Administrator Settings" link. Below the header, the user is logged in as "mcsadmin" and can access "Administrator Settings", "View Logs", and "Cha". The interface features several sections: "Groups" with a "Select" dropdown and an "Assign" button; "Defaults" with a "Select" dropdown and an "Apply" button; and "Channels" with a "Select" dropdown. A "Check-Out" button and a "Reset Defaults" button are also visible. The "Last Updated" date is 9/19/2019. A table with columns for RID, IP, Signal, Version, Model, M, and D is shown below. The bottom right corner displays "Total Rec" and "Version: 3.97 ©".

# ADMIN HOME PAGE

The screenshot shows the Admin Home Page with the 'Property Information' tab selected. The page has a navigation bar with tabs: Property Information, Admin Receiver List, Users, Alerts, Local Channels, Video Sources, Import/Export, and Status. The main content area is divided into three sections: 'Property Name/Location', 'Property Address', and 'Property Logo'. Each section has a text input field and a 'Save' or 'Apply' button, with red arrows pointing to these buttons. The 'Current Name/Location' field contains 'Best Western Plus Boulder'. The 'Property Address' field contains '770 28th St, Boulder, CO 80303'. The 'Current Logo' field shows a logo for 'BOULDER INN'.

**Property Information** Admin Receiver List Users Alerts Local Channels Video Sources Import/Export Status

**Property Name/Location:**

Current Name/Location: Best Western Plus Boulder [Save Property Name](#)

Property Address: 770 28th St, Boulder, CO 80303 [Save Property Address](#)

**Property Logo:**

[Upload New Logo](#) [Apply Logo to all Receivers](#)

Current Logo: 

Version: 3.97 © DIRECTV 2010-2015

The home page of the Admin page will be the property information tab. From here you can set the following:

- Current Name/Location – This will allow you to set the name of the property in which the MCS is located
- Property Address – This will allow you to save the property address for future reference
- Property Logo – This will allow you to upload a property logo that will display on the receiver's guide. The logo must be exactly 125x65. Any larger will not work and any smaller may also not work. Once the desired logo has been loaded you can click the Apply Logo to all Receivers button and the logo will be sent out to all receivers reporting to the MCS

# ADMIN RECEIVER LIST

The next tab available is the Admin Receiver List. By clicking on this tab you will be taken to a page similar to the home page of the MCS. However there are more options available to you here. We will only be going over the new options.

Property Information **Admin Receiver List** Users Alerts Local Channels Video Sources Import/Export Status

Administrative Receiver List

Commands:   Groups:

Commands:    Last Updated: 9/25/2019 8:51:30 AM

Room [PMS ID]	CAM	[PMS ID]	RID	IP	M	DS	Active
<input type="checkbox"/> All					<input type="checkbox"/>	<input type="checkbox"/>	79/100
<input type="checkbox"/> Unassigned							
<input type="checkbox"/> 1st Floor							
<input type="checkbox"/> 2nd Floor							

Auto-refresh if idle for 10 minutes Total Receiver Count: 100

To configure table columns, click the gear icon

Version: 3.97 © DIRECTV 2010-2015

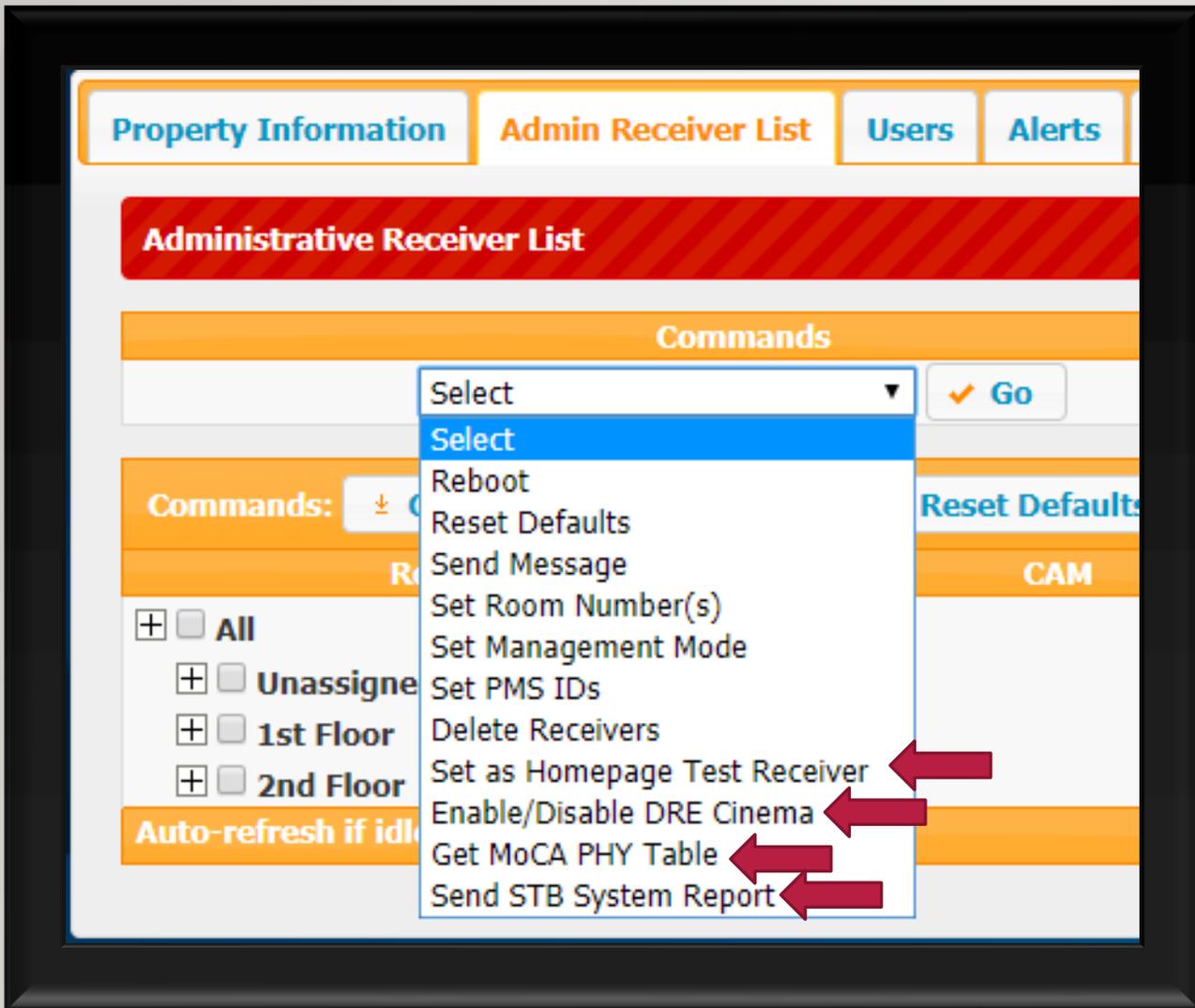
# ADMIN COMMANDS

---

The additional command available from the commands drop down are:

- Reboot – This command will make the selected receivers reboot
- Reset Defaults – This will tell the selected receivers to reset the defaults
- Set Management Mode – This will allow you to set the receivers into managed mode and is required for certain features to work
- Set PMS IDs – This will allow you to set the PMS ID for each receiver. This is required when doing a PMS integration and you will need to identify with the property how their PMS ID's each room. Example: Some PMS systems see room 101 as 000101
- Delete Receivers – This command will allow you to remove receivers that have reported to the MCS. If the receiver is still connected to the managed system, then it will come back the next time it reports.

The screenshot displays the 'Admin Receiver List' interface. At the top, there are navigation tabs: 'Property Information', 'Admin Receiver List' (active), 'Users', and 'Alerts'. Below the tabs is a red header bar with the text 'Administrative Receiver List'. Underneath, there is a table with a 'Commands' column. A dropdown menu is open over the 'Commands' column, listing various actions: 'Select', 'Reboot', 'Reset Defaults', 'Send Message', 'Set Room Number(s)', 'Set Management Mode', 'Set PMS IDs', 'Delete Receivers', 'Set as Homepage Test Receiver', 'Enable/Disable DRE Cinema', 'Get MoCA PHY Table', and 'Send STB System Report'. Red arrows point to 'Reboot', 'Reset Defaults', 'Set Management Mode', and 'Delete Receivers' in the dropdown menu. The background interface shows a table with columns for 'Receiver ID', 'Receiver Name', and 'Receiver Type', with a 'Go' button and a 'Reset Defaults' button visible.



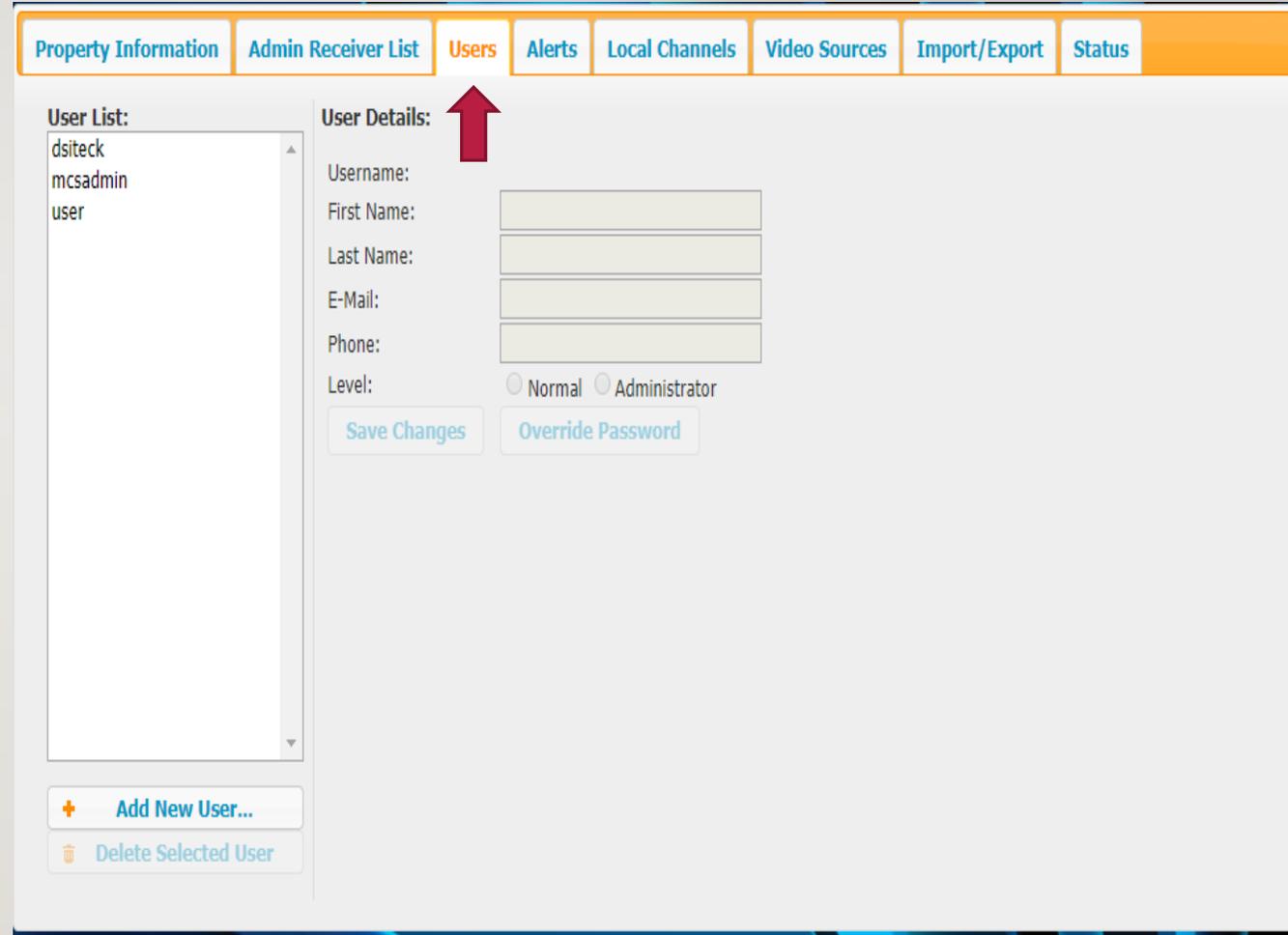
## ADMIN COMMANDS CONT

- Set as Homepage Test Receiver – This will allow you to designate a receiver as the test receiver. This is helpful when creating a welcome screen as you can send it out to just the test receiver to validate your welcome screen before deploying to the whole property
- Enable/Disable DRE Cinema – This option will allow you to enable to use of the Cinema server if there is one present
- Get MoCA PHY Table – This will generate a snapshot of the MoCA network for the receiver chosen. This can be used for advanced troubleshooting of the MoCA network
- Send STB System Report – This can be used to generate reports for advanced troubleshooting with DTV



# USER TAB

On the user tab you will be able to add/remove users and define what privileges they have on the system. This can be used to create a user for the property to login and manage the system. You can also change the password for existing users here.



The screenshot shows a web-based interface with a navigation bar at the top containing several tabs: 'Property Information', 'Admin Receiver List', 'Users', 'Alerts', 'Local Channels', 'Video Sources', 'Import/Export', and 'Status'. The 'Users' tab is currently selected and highlighted in orange. Below the navigation bar, the interface is divided into two main sections. On the left, there is a 'User List' section with a scrollable list containing three entries: 'dsiteck', 'mcsadmin', and 'user'. Below this list are two buttons: '+ Add New User...' and 'Delete Selected User'. On the right, there is a 'User Details' section. A red arrow points to the 'Users' tab in the navigation bar. The 'User Details' section includes fields for 'Username:', 'First Name:', 'Last Name:', 'E-Mail:', and 'Phone:'. Below these fields is a 'Level:' section with two radio buttons: 'Normal' and 'Administrator'. At the bottom of the 'User Details' section are two buttons: 'Save Changes' and 'Override Password'.

# ALERT TAB

On the Alert tab you will be able to see the defined alerts that will be sent to specific users. You can also add and delete alerts and set who you would like to be notified if an alert is triggered.

The screenshot displays the 'Alerts' tab interface. At the top, a navigation bar contains the following tabs: Property Information, Admin Receiver List, Users, Alerts, Local Channels, Video Sources, Import/Export, and Status. Below the navigation bar, there are three buttons: '+ Add Alert', '- Delete Selected Alert(s)', and 'Test Alerts'. A table below these buttons has two columns: 'Configured Alert Notifications' and 'Last Time Executed'. The table is currently empty, displaying the text 'No Alerts Configured.' Three red arrows point to the 'Alerts' tab, the 'Add Alert' button, and the first two columns of the table.

### Add Alert ✕

**Configure Inactivity Alert Check Interval:**  
The system will check the status of the receivers at this interval and send an alert if the threshold of inactive boxes is exceeded.

Check the inactivity status every

Inactive Threshold:  % or more Receivers are not active

---

**Configure Signal Strength Alert Check Interval**  
The system will check the signal strength status of the receivers at this interval and send an alert if the signal strength level goes below the specified threshold

Check the signal strength every

Signal Level:  % or below

---

**Send Daily Report:**  
The system will send a daily report at the specified time.

Send Daily Report @

---

**Send PMS Check-In/Check-Out Failure Report**  
The system will send a report to the specified user any time the PMS system is unable to reset a receiver upon Check-In or Check-Out.

Send PMS Failure Alert @

---

Send Email to User:

# ADD ALERT WINDOW

- When adding an alert you will be able to specify what you would like to trigger the alert.
- You will be able to specify when a report is sent
- You will also be able to specify to whom the report will be sent to
- Once you have created the desired parameters click on the Add Alert button at the bottom

On the local channels tab we will be able to create and set the channel numbers for our LCI channels. These channels can play either from the MCS server or from a PD100 connected to the MDF switch.

- New Channel – This will allow you to create a new channel and set the video source that the channel will be using
- Delete Checked Channels – This will allow you to delete the selected channels
- Set Channel Numbers – This will allow you to set the channel for the selected channels. You will need to use the drop-down windows in the Channel Number column to set the desired channel. This can be 1-x or 2500-2600
- Refresh Channel Guide – This will tell all receivers to refresh their channel guide. You will need to add the channel into the custom channel map before this will help add the channel
- Restart All Videos – This will restart all LCI videos that are playing from the MCS only. It will not restart the videos that are playing through a PD100

The Channel description will reflect the description made when creating a new channel. The video source column will quickly identify which video source has been set to each channel.

# LOCAL CHANNELS TAB

The screenshot shows the 'LOCAL CHANNELS TAB' interface. At the top, there is a navigation bar with tabs: Property Information, Admin Receiver List, Users, Alerts, Local Channels (highlighted), Video Sources, Import/Export, and Status. Below the navigation bar is a toolbar with five buttons: '+ New Channel', 'Delete Checked Channels', 'Set Channel Numbers', 'Refresh Channel Guide', and 'Restart All Videos'. Below the toolbar is a table with the following columns: C, Channel Number, Channel Name, Channel Description, and Video Source. The table contains two rows of data. Red arrows point to the 'Local Channels' tab, the '+ New Channel' button, the 'Delete Checked Channels' button, the 'Set Channel Numbers' button, the 'Refresh Channel Guide' button, the 'Restart All Videos' button, the 'Channel Description' column header, the 'Video Source' column header, and the first row of the table.

C	✓ Channel Number	Channel Name	Channel Description	Video Source
1.2%	<input type="checkbox"/> 2599 - None	DRE	DIRECTV Residential Experience for Hotels! Enjoy the At Home Experience!	DRESIZZLETEST
0.0%	<input type="checkbox"/> 2600 - None	Test	n/a	test

# NEW CHANNEL CREATION

---

When creating a new channel you will have several fields that will need to be filled out. You must fill out every field in order to create a new channel. Once you are done select the video source that will be used for this channel then click Create at the bottom.

### Channel Settings ✕

Channel Call Sign:

Channel Name:

Channel Description:

Program Title:

Program Description:

Parental Rating:

Video Source:

# VIDEO SOURCES TAB

From the Video Sources tab you will be able to see the videos that have been loaded onto the MCS.

You will also be able to load new videos to the MCS for use in LCI channels. You can also set the location of external channels using a PDI00 for use as an LCI channel.

Likewise you can delete channels that will no longer be used.

<input checked="" type="checkbox"/>	Name	Information	Original File Name	File Size
<input type="checkbox"/>	2019KWFF MKB property	Source ID: 56, V: 56, A1: 100 en,	2019KWFF-MKB preoperty.ts	132,143,508 bytes
<input type="checkbox"/>	2019KWFF-MKB Property	Source ID: 57, V: 100, A1: 101 en,	2019KWFF-MKB preoperty.ts	132,143,508 bytes
<input type="checkbox"/>	MHR - Residences - 2019	Source ID: 54, V: 100, A1: 101 en,	MHR-1092-1 Montage Residences.ts	34,365,460 bytes
<input type="checkbox"/>	MHR-INRoom 2019	Source ID: 59, V: 100, A1: 101 en,	MHR-InRoom-2019-Online Streaming Version.ts	384,692,180 bytes
<input type="checkbox"/>	MHR-InRoom-2019	Source ID: 52, V: 100, A1: 101 en,	MHR-InRoom-2019-Online Streaming Version.ts	788,078,704 bytes
<input type="checkbox"/>	MI 2019 In Room	Source ID: 58, V: 100, A1: 101 en,	MHR-2019-InRoom-Mpeg2.ts	2,557,585,276 bytes
<input type="checkbox"/>	MI2019	Source ID: 61, V: 100, A1: 101 en,	Montage_LCI.mp4.lci.ts	473,508,832 bytes
<input type="checkbox"/>	MKB AR B3	Source ID: 38, V: 100, A1: 101 en,	MKB_All_Resorts_B3_R2.ts	513,819,228 bytes
<input type="checkbox"/>	MKB AR B4	Source ID: 42, V: 100, A1: 101 en,	MKB_All_Resorts_B4_R2.ts	513,819,228 bytes
<input type="checkbox"/>	MKB OP B3	Source ID: 40, V: 100, A1: 101 en,	MKB_Oldest_Pier_B3_E.ts	146,626,652 bytes
<input type="checkbox"/>	MKB OP B4	Source ID: 43, V: 100, A1: 101 en,	MKB_Oldest_Pier_B4_E.ts	146,626,652 bytes
<input type="checkbox"/>	MKB Residence 2018	Source ID: 51, V: 100, A1: 101 en,	1.Montage Residences.mp4.lci.ts	140,428,668 bytes
<input type="checkbox"/>	MKB-InRoom-2019	Source ID: 53, V: 100, A1: 101 en,	MHR-1092-1 Property Chapters - Montage Kapalua Bay.ts	109,161,072 bytes
<input type="checkbox"/>	New Montage 2019	Source ID: 60, V: 100, A1: 101 none,	MHR-2019-InRoom-Mpeg2.ts	2,557,585,276 bytes

# NEW VIDEO SOURCE

When creating a new video source you will need to tell the MCS where the video is located. If the video is external you can do this by checking the External Source check box.

If the content is playing from the MCS then you will need to set the following:

- Video PID
- Audio PID and language
- Source file

Once these have been set name the video and then click the Create button on the bottom of the window.

The screenshot shows the 'Video Source Settings' window. It features an orange title bar with a close button. Below the title bar, there is a section for 'External Source' with a checkbox and a 'Video Source Name' text input field. A red arrow points to the checkbox. Below this is the 'Source File' section, which includes a 'Video PID' text input field with a red arrow pointing to it. To the right of the 'Video PID' field is a table with two columns: 'Audio PID(s)' and 'Language'. The 'Audio PID(s)' column has four empty text input fields, with a red arrow pointing to the first one. The 'Language' column has four dropdown menus, each with 'None' selected, and a red arrow pointing to the first one. To the right of the table is a 'Select Local Video Source File' section with a file browser showing a directory tree. A large red arrow points from the right side of the window towards the file browser. The directory tree includes folders like bin, boot, cdrom, dev, etc, home, lib, lib32, lib64, media, mnt, opt, proc, run, sbin, selinux, srv, sys, tmp, usr, and var.

# IMPORT/EXPORT TAB

You can use the Import/Export tab in order to backup MCS settings or to load previously backed up setting in the event that they are lost or the MCS has been replaced. The following items are available from this tab:

- **Import:** This section will allow you to import CSV files created from exporting files from a MCS. You can use these to quickly re-add receivers, user settings, Defaults, Channel Lists, and Alerts
- **Export:** This section will allow you to back up your MCS settings including Receiver List, Users, Defaults, Channel List, Alerts, Logs

You should move the exported files from the MCS server to another computer for safe keeping. If the computer fails and needs to be rebuilt then you will also lose these files. If you do not know where to send these please email them to someone at the office.

**Property Information** **Admin Receiver List** **Users** **Alerts** **Local Channels** **Video Sources** **Import/Export** **Status**

## Import & Export

**Import**

Import New Receiver Installation CSV File:

[Import New Receiver Installation File](#) ←

This file must follow the given template file. [Save Template File](#)

Import Receiver List:

[Import Receiver List](#) ←

This file must have been previously exported from MCS.

Import Users:

[Import Users](#) ←

Import Defaults:

[Import Defaults](#) ←

Import Channel Lists:

[Import Channel Lists](#) ←

Import Alerts:

[Import Alerts](#) ←

**Export**

Export Receiver List:

[Export Receiver List](#) ←

Export Users:

[Export Users](#) ←

Export Defaults:

[Export Defaults](#) ←

Export Channel Lists:

[Export Channel Lists](#) ←

Export Alerts:

[Export Alerts](#) ←

Export Logs:

[Export Logs](#) ←

# STATUS TAB

Property Information Admin Receiver List Users Alerts Local Channels Video Sources Import/Export Status

## Service Status

Refresh Services Status

Discovery Service: **Running**

Restart Discovery

SHEF Service: **Running**

Restart SHEF

PMS Service: **Not Running**

Restart PMS

DHCP Service: **Running**

Restart DHCP

Restart All Services

The status tab will show you the current services and if they are currently running. You can also send a command to the MCS to restart each service.

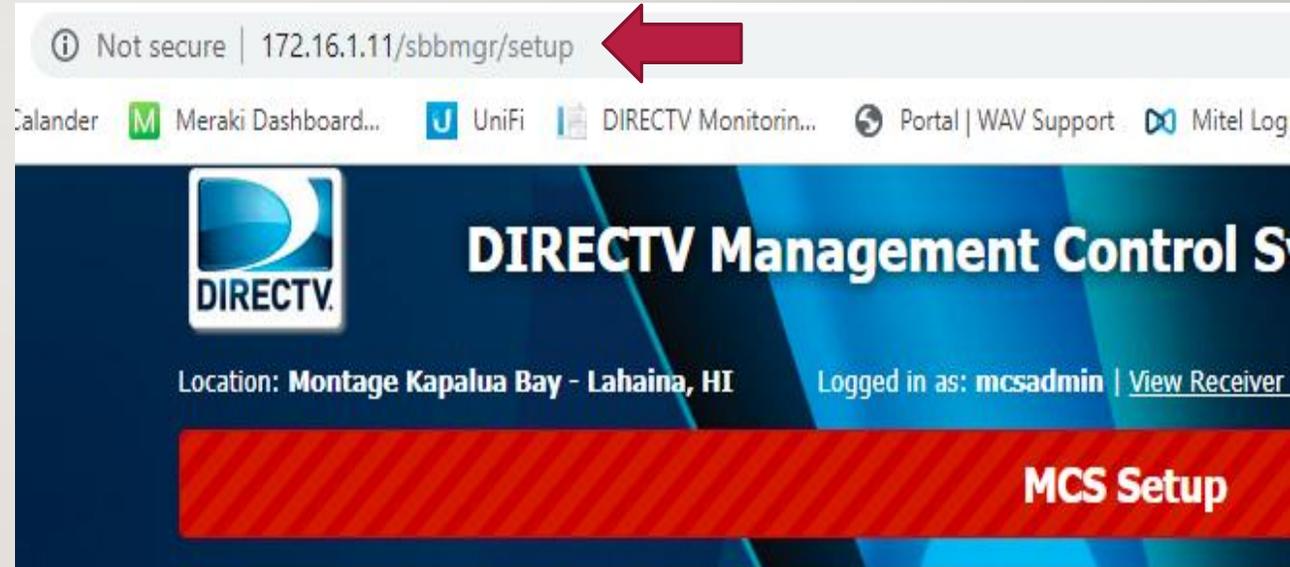
You can refresh the status of each service by clicking on the Refresh Services Status button at the top

You can restart each service individually by clicking on the restart button next to each service

Or you can restart all services by clicking on the Restart All Services button at the bottom

# MCS SETUP URL

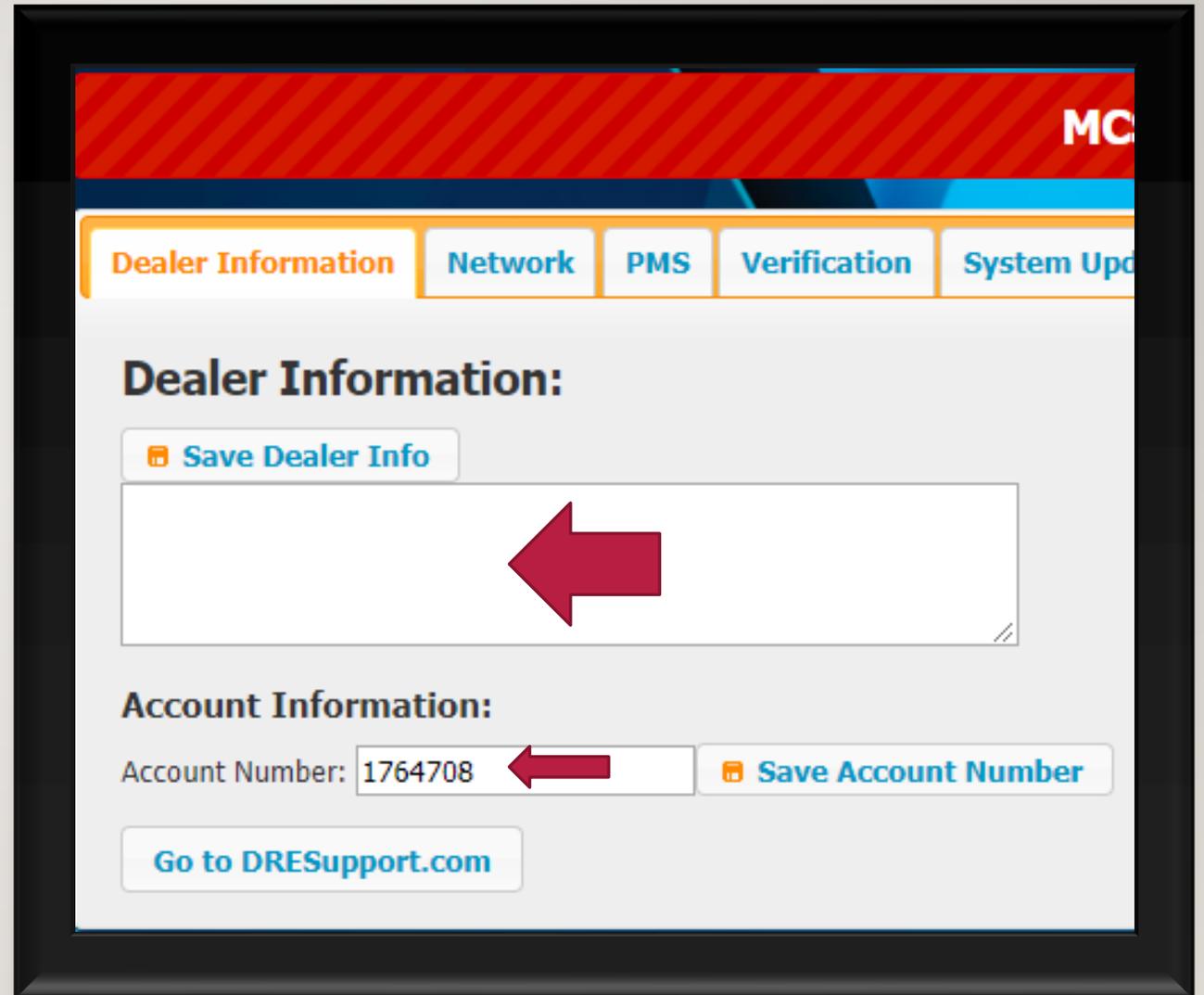
- There are additional options that you can only access by manually changing the URL. To do this delete the last part of the MCS URL and enter the word setup at the end and then click enter.
- You should have a URL that looks like this if you have done it right



# DEALER INFORMATION TAB

---

- The first tab from the MCS setup URL is the Dealer Information tab. From here you will be able to label the dealer information of the MCS as well as the account number for the property. The account number is important in order for certain functions to work.



The screenshot shows the MCS Dealer Information tab interface. At the top, there is a red header with the MCS logo. Below the header, there are five tabs: Dealer Information (highlighted in orange), Network, PMS, Verification, and System Upd. The main content area is titled "Dealer Information:" and contains a "Save Dealer Info" button. Below this is a large empty text input field with a red arrow pointing to it. Underneath, there is an "Account Information:" section with an "Account Number:" label, a text input field containing "1764708" with a red arrow pointing to it, and a "Save Account Number" button. At the bottom, there is a "Go to DRESupport.com" button.

# NETWORK TAB

The network tab will contain information about the current network configuration of the MCS server.

- You will be able to see the interface configurations
- You also can see the current routing that the MCS is using
- The DNS setting will be available below
- You can also perform a “Ping” test by clicking on the Ping button below

## MCS Setup

Dealer Information Network PMS Verification System Update Monitoring Welcome Screen Cinema Reboot

### Network Configuration

Overview:

External IP Address: 76.81.100.122

Interfaces:

Name	IP	Mask	MAC
eth0	Not Set	Not Set	d4:ae:52:d4:15:83
eth1	Not Set	Not Set	d4:ae:52:d4:15:84
eth0:avahi	169.254.7.178	255.255.0.0	d4:ae:52:d4:15:83
vlan1001	10.129.8.11	255.255.255.0	d4:ae:52:d4:15:84
vlan2000	172.16.1.11	255.255.0.0	d4:ae:52:d4:15:84

Routing:

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
0.0.0.0	172.16.1.10	0.0.0.0	UG	100	0	0	vlan2000
0.0.0.0	0.0.0.0	0.0.0.0	U	1002	0	0	eth0
10.10.0.0	10.129.8.10	255.255.0.0	UG	0	0	0	vlan1001
10.129.8.0	0.0.0.0	255.255.255.0	U	0	0	0	vlan1001
169.254.0.0	0.0.0.0	255.255.0.0	U	0	0	0	eth0
169.254.0.0	0.0.0.0	255.255.0.0	U	1000	0	0	vlan1001
172.16.0.0	0.0.0.0	255.255.0.0	U	0	0	0	vlan2000
172.100.0.0	10.129.8.10	255.255.254.0	UG	0	0	0	vlan1001
239.255.0.0	0.0.0.0	255.255.0.0	U	0	0	0	vlan2000

DNS:

DNS Setting	Server
nameserver	172.16.1.10
nameserver	8.8.8.8
nameserver	8.8.8.8

Test:

Ping

# NETWORK TAB CONT

---

- If you scroll down on the Network tab you will also have the options for SMTP E-mail setting. This will allow you to configure the MCS for Simple Mail Transfer Protocol.
- Remote Setup Access: By having this box checked user remoting in will have the ability to make changes that would otherwise not be available. This will need to be enabled in order for Dre Support to have access.

**DNS:**

DNS Setting	Server
nameserver	172.16.1.10
nameserver	8.8.8.8
nameserver	8.8.8.8

**Test:** [Ping](#)

**SMTP E-Mail Settings:**

SMTP Server:

SMTP Port:

SMTP Username:

SMTP Password (not shown):

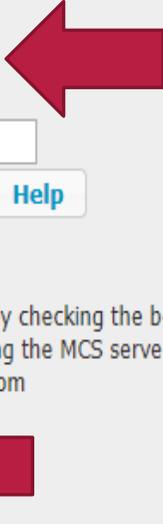
[Save SMTP Settings](#) [Test Settings](#) [? Help](#)

**Remote Setup Access:**

Enable remote access to this Setup section of MCS by checking the box below.  
If not checked, only on-site users physically accessing the MCS server itself will be able to access this setup section.  
This must be enabled for support from dresupport.com

Enable Remote Access to Setup

[Save Remote Access Setting](#)



# PMS TAB

**MCS Setup**

Dealer Information Network **PMS** Verification System Update Monitoring

## Property Management System (PMS) Configuration

Current Settings:

PMS Type: undefined

PMS Service: **Not Running**

Restart PMS

Change PMS Configuration Test PMS

When integrating an MCS server with the properties PMS you can use this tab to see if the PMS service has been enabled. You used to be able to control this however in recent changes you will have to work with DTV PMS in order to facilitate the integration.

- Using this tab you can identify the current PMS type. The only type allowed in managed mode
- You can restart the PMS if needed
- Test PMS no longer works so clicking this will do nothing
- Change PMS configuration will allow you to set the type of PMS you want but Managed is the only one that works

# VERIFICATION TAB

---

This tab will allow you to send a Dart report to Dre support.

- You can also get a Dart report (Diagnostic And Reporting Tool)
- This will only be used when asked for by DTV



The screenshot shows a web interface for 'MCS Setup'. At the top, there is a red header with the text 'MCS Setup'. Below the header is a navigation bar with six tabs: 'Dealer Information', 'Network', 'PMS', 'Verification', 'System Update', and 'Monitoring'. The 'Verification' tab is currently selected and highlighted in orange. Below the navigation bar, the main content area is titled 'Diagnostic and Reporting Tool'. It contains a form with the label 'Please enter the number of MDF/IDF Switches:' followed by a text input field containing the number '1'. Below the form, there are two links: 'Click here to send a DART report to dresupport.com' with a button labeled 'Send DART Report' (indicated by a blue arrow icon), and 'Click here to download a DART report. You can manually send this to dresupport.com' with a button labeled 'Get DART Report' (indicated by a document icon).

# SYSTEM UPDATE TAB

---

From the system update tab you will be able to check the current versions as well as download and install new versions. You will need a username and password in order to download these updates.

The screenshot shows the 'MCS Setup' interface with the 'System Update' tab selected. The interface is divided into three columns: 'Update via DRESupport.com', 'Information', and 'Update via DIRECTVMonitoring.com'. Each column contains a 'Check for Update' button and an 'Update' button. The 'Information' column also includes a 'View Last Upgrade Log' button. At the bottom, the MCS UID is displayed as 47d73f4e-49e4-4b26-9f74-95b44b2b62e8.

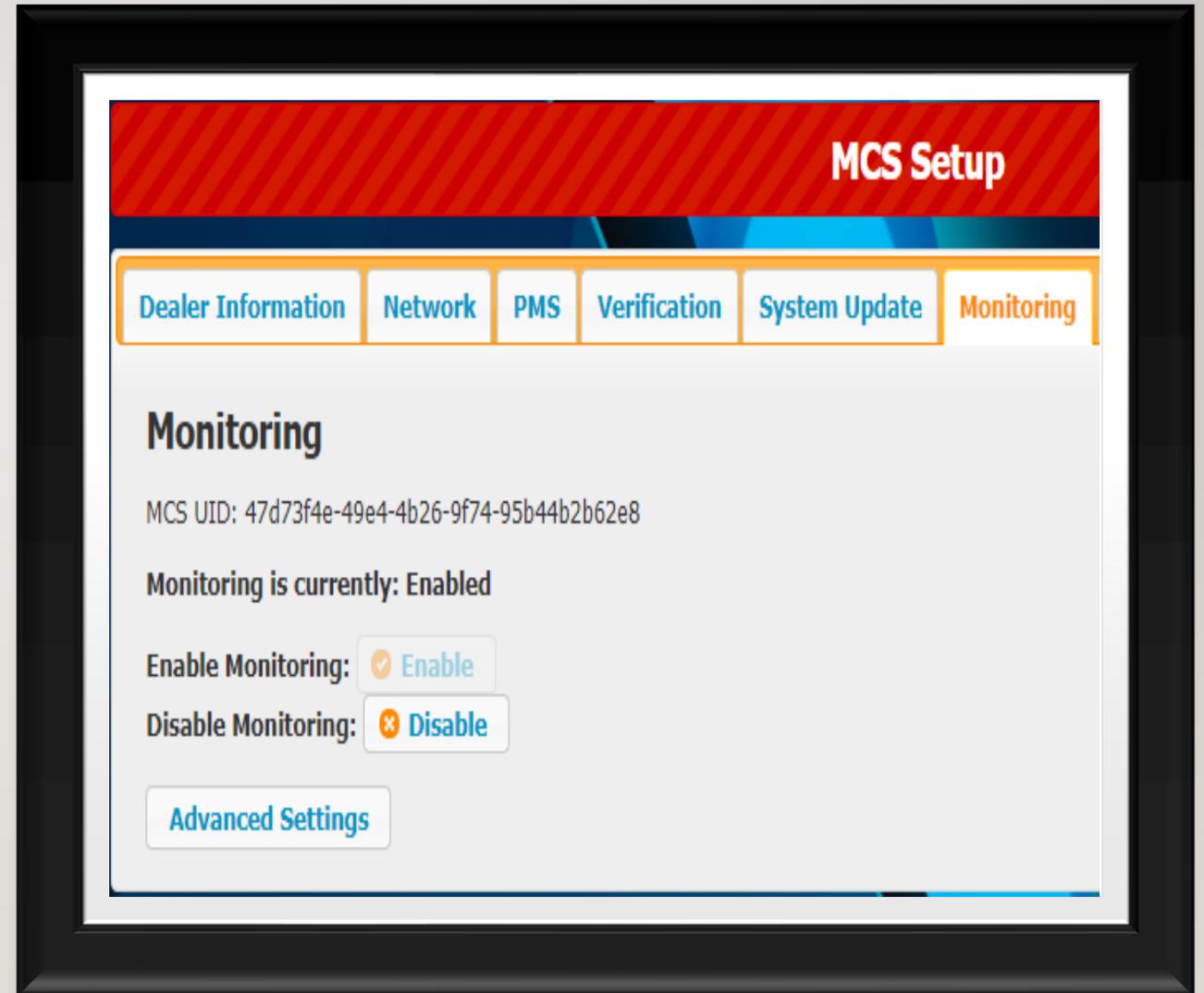
Update via DRESupport.com	Information	Update via DIRECTVMonitoring.com
Check DRESupport.com for Update <a href="#">Check for Update</a>	<b>Update Information:</b> Click button to check for update.	Check DIRECTVMonitoring.com for Update <a href="#">Check for Update</a>
<a href="#">Update</a>	<b>Update Status:</b> Click button to initiate update.	<a href="#">Update</a>
	Click to view update log from last update. <a href="#">View Last Upgrade Log</a>	

MCS UID: 47d73f4e-49e4-4b26-9f74-95b44b2b62e8

# MONITORING TAB

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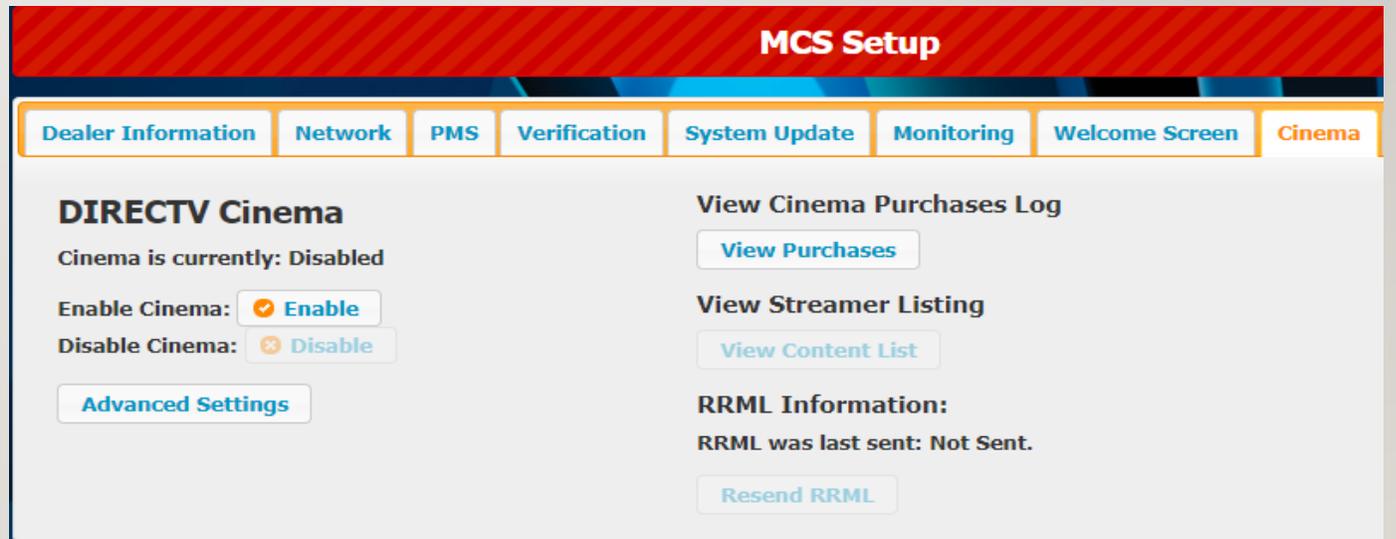
From the monitoring tab you will be able to enable monitoring. This will allow the MCS to report to the DirecTV monitoring portal and will need to be enabled in the event that a VPN is being installed



This tab will allow you to enable the cinema service on a Dre. It requires a Cinema server,VPN, and USB drives installed onto each receiver.This service has been discontinued. From this tab you can also see recent purchases.

## CINEMA TAB

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The screenshot displays the 'MCS Setup' interface with a red header and a navigation bar containing tabs for Dealer Information, Network, PMS, Verification, System Update, Monitoring, Welcome Screen, and Cinema. The Cinema tab is active. The main content area is divided into two columns. The left column features the 'DIRECTV Cinema' section, which indicates the service is currently disabled. It includes 'Enable Cinema' and 'Disable Cinema' buttons, both with radio buttons, and an 'Advanced Settings' button. The right column contains three sections: 'View Cinema Purchases Log' with a 'View Purchases' button, 'View Streamer Listing' with a 'View Content List' button, and 'RRML Information' showing 'RRML was last sent: Not Sent.' with a 'Resend RRML' button.

**MCS Setup**

Dealer Information Network PMS Verification System Update Monitoring Welcome Screen Cinema

**DIRECTV Cinema**  
Cinema is currently: Disabled

Enable Cinema:  Enable  
Disable Cinema:  Disable

Advanced Settings

View Cinema Purchases Log  
View Purchases

View Streamer Listing  
View Content List

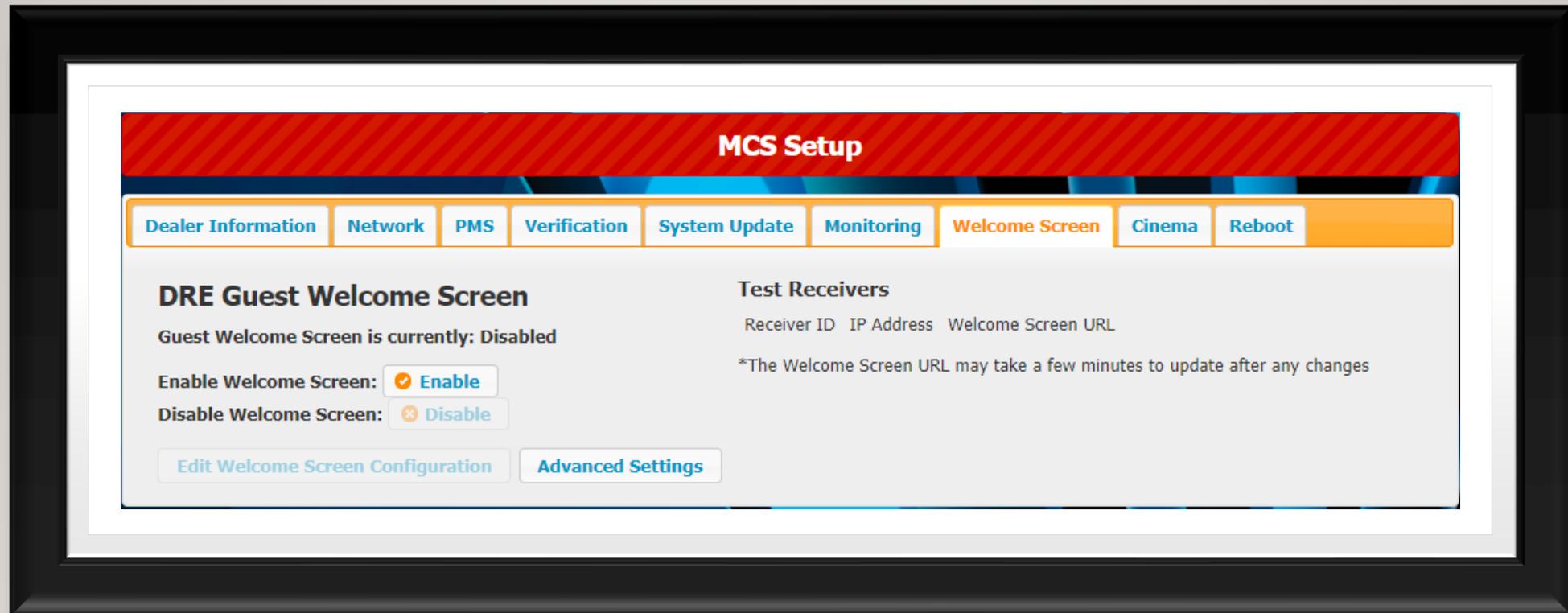
RRML Information:  
RRML was last sent: Not Sent.  
Resend RRML

From the reboot tab you can do 1 thing. You can click the reboot button which will cause the MCS server to restart. It can take up to 20 min before the MCS will be accessible again. Also keep in mind that if any LCI are playing from the MCS server they will be interrupted until the reboot has completed.

## REBOOT TAB

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## WELCOME SCREEN TAB

FROM THE WELCOME SCREEN TAB YOU CAN ENABLE THE WELCOME SCREEN ON THE MCS. YOU WILL NEED TO CLICK ON THE EDIT WELCOME SCREEN CONFIGURATION BUTTON. THIS WILL OPEN A NEW WINDOW IN WHICH YOU CAN CONFIGURE THE WELCOME SCREEN THAT WILL BE DEPLOYED. YOU WILL NOT BE ABLE TO USE THE EDIT WELCOME SCREEN CONFIGURATION BUTTON UNTIL THE WELCOME SCREEN HAS BEEN ENABLED.