



# Cisco StadiumVision Zones, Groups, and Locations Implementation Guide

**All Releases** 

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# **Document History**

#### Table 1. Revision History

Date	Description
4/24/2013	Minor revisions for support of later releases.
3/14/2011	First release for Cisco StadiumVision Director Release 2.3.

*NOTE:* This document provides illustrations for Cisco StadiumVision Director Release 2.3, but is also applicable to later releases of the Cisco StadiumVision Director software with some differences in the user interface for those releases.

# **Introduction to Zones and Groups**

The Cisco StadiumVision solution supports reliable delivery of content to thousands of endpoints, providing venues the flexibility to place numerous TVs throughout the concourses, in the bars and restaurants, in the luxury suites, in the locker rooms and back offices, in the concession areas, and even in the restrooms. Digital content, in the form of still or animated graphics and video ad insertions, can be targeted and delivered - with accompanying event video in HD or separately - to any display or group of displays throughout the venue.

Managing the thousands of endpoints in a stadium can be a challenge if you don't have some sort of structure in place to keep track of where the endpoints are located and which content they are playing. For example, say you have two TV screens and you want to show full screen video on one screen and full screen signage on another. It's easy to configure this if you have only two TVs. But when you have hundreds or thousands of TVs that you want to show different video signage, different sponsored content, different TV channels, and different menus, you need a way to automate the configuration and manage the end point locations.

# **StadiumVision Hierarchy**

To provide a logical way of organizing the hundreds to thousands of endpoints in a venue, StadiumVision implements a hierarchy of *Zones*, *Groups*, *Templates*, and *Locations*. (Refer to Figure 1.) These concepts will be described in detail in the remainder of this section.





## Zones



A *Zone* is typically a physical area in the stadium. Examples of zones include concourses, clubs, and team stores. The figure illustrates the nested hierarchy with a zone named 'Concourse' at the top level.

# Groups



*Groups* are the second level in the hierarchy. You can think of groups as "children" of a zone. Consider the case where you have TVs in a concourse area and you want them to show a game feed with sponsored advertising. Rather than configure each individual TV to show this content, you can put them in a 'group' and configure all the TVs with a single action. You can then associate them to a zone to identify the area of the stadium where they are located. There are two important distinctions between groups and zones:

- 1. Groups are subsets of zones.
- 2. Every TV location in a group shows the exact same content.

In the diagram shown in above, a group named '100\_con\_game\_wrap' is created and assigned to the 'Concourse' zone. The group name identifies the TVs as being in Concourse 100 and displaying a game feed with an L-wrap.

Other examples of groups in a stadium include TVs in clubs that you want to show the same menu, or the same video content and sponsored advertising, or the same game feed. For example, you can create separate groups for TVs that you want to show the same content in the club. The following illustration shows three groups in the Club A zone – each showing different content: Club\_A\_Lwrap\_Group, Club\_A\_Menu\_Group, Club\_A\_Game\_Group.





You can perform actions on zones just like you can on groups. If you put actions on the group and zone level for a particular device, the group actions will take precedence since they are more specific than the actions assigned to a zone.

# Templates



Although *templates* are not part of the StadiumVision device hierarchy, they define how a particular TV screen is divided into regions to show different arrangements of video, signage, and advertising on the screen.

As shown in <u>Figure 2</u>, there are three basic templates: Full screen video, full screen signage (graphic), and an L-wrap. The "L-wrap" template divides the screen into three sections where you have video in the top left of the screen, advertising along the side and a ticker showing scores and news feed for example across the bottom.



Full Screen VideoFull Screen SignageL-WrapImage: Street Street

Every device in the same group displays the same template.

100000000000

# Locations



Locations are at the lowest level of the StadiumVision hierarchy. They define a specific place in the stadium where a TV and DMP reside. Locations help you keep track of exactly where a TV and DMP is physically located in the stadium. For example, if someone tells you that a TV in a restroom at the concourse 100 level is not working, you can refer to the Location information to quickly find the TV and fix it.

The diagram above shows a location named '100\_con\_N\_01' which indicates that the TV-1 and DMP-1 are located on the North concourse 100 level.



A location consistes of the physical location and display type, as well as the DMP associated with the location and display. This allows you to have all your location / display information permanently tied together and have the DMP and networking information abstracted in the event of a device upgrade or networking topology changes.

# **Configuring Zones and Groups**

The procedures in this section can be performed ONLY by the Administrator (admin role) in Cisco StadiumVision Director.

The **Setup > Zones & Groups** tab in the Cisco StadiumVision Director Control Panel provides a visual representation of the hierarchy of zones, groups and locations in the stadium. The interface enables you to easily create and manager zones, groups, and locations.

Using the **Zones & Groups** screen you can easily:

- Add, remove, and edit groups and zones.
- Add and remove multiple locations to / from groups and zones.
- View and manage zone, group, and location associations.
- View and search on the Location Name, IP Address, MAC Address, TV Details and TV Description, and number of groups to which the Location is assigned.
- Traverse the zones/groups and locations hierarchy. For example, you can view information top
  ↓down (from zones to groups to locations) and bottom ↑ up (from locations to groups to zones).
- Move multiple locations between groups ("re-grouping") and move multiple groups between zones ("re-zoning").
- View overlaps such as groups that share the same location or zones that share the same group.
- Find the group and zone to which a TV Location belongs.

# Accessing the Zones & Groups Screen

The Zones & Groups screen is accessible from the StadiumVision Director Control Panel.

- 1. From your browser, log into Cisco StadiumVision Director and go to the Control Panel.
- 2. From the Control Panel, click Setup.
- 3. Click Zones & Groups. The Zones & Groups screen displays.

# **Zones & Groups Screen Layout**

The Zones & Groups screen has a consistent layout where the navigation tabs are at the top of the screen, the operations controls are below the navigation tabs, and the details area is in the middle of the screen. (Refer to Figure 6.)



Figure 3. Zones and Groups Screen

The Zones & Groups screen has a dividing bar so that you can display more information on the screen at once without having to jump back and forth between separate screens. Any items with a blue underline are a hyperlink. (Refer to Figure 7.)

Figure 4. Zones & Groups Screen Layout

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# Search and Show Selected Functions

Each panel in the Zones & Groups screen includes a search feature to help you find, filter and narrow the information displayed on the screen. You can search on the Location/Zone/Group Name, IP Address, MAC Address, TV Details and TV Description. Simply type the search criteria (text strings or numbers) in the search box and click the magnifying glass. For example, if you type 'bar' in the search box on the Locations screen, all the locations with the word 'bar' in their name will display. (Refer to Figure 8.)



Location<->Group	Group<->Zone								
Locations   Groups									
Locations	Locations 12 Locations								
Add To Groups	Add To Groups 🛛 😵 🔲 Show only selected 🖉 🔎 Bar 🗙								
Name 🔺	IP Address	MAC Address	Display Spec	Description	#Groups				
100-Club-A-Bar-Center	64.101.138.105	00:0a:00:00:0a:0a	Panasonic-TH-32PX60	Center Bar TV	1				
100-Club-A-Bar-Left	10.24.162.12	00100100100100100	Panasonic-TH-42PX60	Left Bar TV	3				
100-Club-A-Bar-Right	64.102.87.133	00:0c:00:00:0c:0c	Panasonic-TH-42PX60	Right <u>Bar</u> TV	1				

You can narrow the list and display only selected entries using the CTRL-click and SHIFT-click keyboard functions. Simply select the entries and then enable the checkbox next to 'Show only selected'.

You can also sort a list by clicking on the column headings.

To clear the search criteria and display all items on the screen, click the red X. To refresh the list, click the refresh icon.



## Switching the View

There are a number of ways to switch the view on the Zones & Groups screen. Click the **Switch View** option to flip the right and left panels on the screen. Depending on the information you are looking for or the operation you are performing, this can make it easier to transcend the hierarchy and find the different relationships between a location, a group, and a zone.

Remove	Switch View	Show overlap 🔄 Show only selected

Another way to switch the view on the screen is to click the number links in the #Groups, #Locations, #Zones columns. For example, you can select a Location Name and then click the numbered link under #Location to show all the locations for a selected Group. Only the numbers with an underline are active links.

Figure 6. Switching the View on the Zones & Groups Page

Groups			
🔶 Group 🛛 🥖 Gr	oup 🔀 Group	Add to Zones 🛛 🛞	Show only select
Group Name	Description	#Locations	#Zomes
delay_group		0	1
quorg_noisseonco		0	2
emergency_group		0	1
luxury_fullscreen_group		0	1
herury_mainscreen_gro		0	1
store_group		a	1
backoffice_group		0	1
sideovall_group		0	1
locker_room_group	Blue locker room	0	1
www.geoup_1.W	L-wrap in con3	8	8
nonevent_group		0	1
Bar_Menu_group	Bar Nenus	2	0
bar_LW_group	L wrapped content	2	0
bar_FSV_group	Full Screen Video	1	0
concourse2_group		10	1
concourse1_group		2.0	1

## **Showing Overlaps**

You can easily see whether a zone, group, or location contains the same DMPs by selecting multiple entries and clicking the Show Overlap checkbox. This is useful to identify and resolve conflicts that occur when actions are being assigned to DMPs that are in the same location, group, or zone. For example, in the following screen, there is an overlap between the Boulder\_Group and SUITES:

Groups -				24 desuger	Locations				
+ Group / Group	X Greep Add Locations	🕴 📋 Show only selec	ned	PLX	Barning Fran Gen	pi Switch Vie	n 🛛 🗹 Show overlap 🛄 🗉	hive been revelated	8
Group Harme	a Description	Flocations	Alexas		Barre	4 1P Address	HAG Address	Biglay Spec	#Groups
adoffice_print		Ø.		1	1003288-4212-A	3835.95.53	00-09-44-02-07-07	10548	4
hadde bend				1					
ancestion, geoup		0		0					
errorat, gives		*		(A)					
neoscae2, group		0		#:			1.102		
laine, proup		*		4			14		
aniargance, group		0		1					
indui-sums:		8							
going_meeting.goog		0		1					
prog_mancoun_prog		4		4	*				
anavert, prove				4					
fore, prove		0		(A)					
LUTUR .		*) ·							
darrel group	12	0		1					

# Naming Conventions for Zones and Groups

With thousands of displays and hundreds of zones and groups, naming is especially important. Choose a logical naming scheme. For example, name similar groups and zones with the same prefix so that you can to sort them alphabetically in the Control Panel. Also, assign names to zones and groups that remind you of the area where the display is located and the screen template or advertising playlist you will be using for that display.

A good way to keep your zones and groups organized is to use a text organizational structure and then assign prefixes to form like groups and zones. This makes it easy to find devices in similar geographical or logical groupings. For example, when naming zones, consider adding the prefix '100' to all clubs on the 100 level. This makes it easy to find and manage these clubs in Cisco StadiumVision Director as they are sorted alphabetically. Likewise, when naming groups for the 100 level clubs, consider adding a suffix to identify where or what content will be displayed in the group. For example:

#### 100\_Club\_A\_zone

100\_Club\_A \_menus\_group

100\_Club\_A \_bar\_group

#### 100\_Club\_B\_zone

100\_Club\_B \_menus\_group

100\_Club\_B \_bar\_group

If you have a very large club with hundreds of DMPs, you may want to have a zone called "Club A Menus" and then have individual groups with each group showing a different menu.



All zone and group names must be unique. Group, zone, and location names cannot have spaces.

# Identifying Screen Templates in Group Names

You can add abbreviations to the group name to identify which screen template is being played by a given group. This allows you can see at a glance (through Cisco StadiumVision Director) what type of content is supposed to play on each group of TVs in the suite or other location in the stadium. Figure 10 shows abbreviations for identifying the different types of screen templates.

Figure 7. Example of Abbreviations for Identifying Templates in Groups



Here are some examples of group names that identify the screen template:

#### 100\_Club\_A\_zone

100\_Club\_A \_menus\_group\_CN 100\_Club\_A \_bar\_group\_AW

#### 100\_Club\_B\_zone

100\_Club\_B \_menus\_group\_CN

100\_Club\_B \_bar\_group\_AW

# Adding and Associating Zones, Groups and Locations

With Cisco StadiumVision Director, you can create a zone and group hierarchy and event script before you have added a single device. The Locations and templates can be associated later. This can be useful as usually you will know where devices will be before they are actually installed, allowing you to organize your TV Locations in parallel with installation.

### Adding a Zone



- 1. Open the Group<->Zones tab and click the Zones button.
- 2. Click + zone

	Use	r Management	Zones & Grou	ps   Staging
Location<->Group	Group<->Ze	one		
Groups Zones				
Zones				
🕂 Zone 📝 Zone	🗙 Zone	Add Groups	🔶 🖂 s	how only selected
Zone Name Nev Zone	A Descrip	ption	#Groups	
backoffice_zone	- 9		1	
concession_zone			3.	
concoursel_zone			3	
concourze2_zone			2	
delay_rone			1	
emergency_zone			1	
locker_room_zone	Blue loc	ker room	1.	
luxury_fullscreen_zone			1	
luxury_mainztreen_zone			1	
nonevent_zone			1	
one_zone			0	
store_cone			1.	
videovall_zone			1	

3. In the Add New Zone dialog box, type a name and description for the new zone and click **Ok**. You can leave the description blank and go back and edit it later.

New Zone		×
Name	concourse3_zone	
Description		
	OK Cance	

The new zone you just created will be added to the list of zones.

# Adding a Group

	CONSECTOR SECTOR	A COLOR							
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Groups			Th Ground	Lateration					
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lat.377.groat generation.groat generation.groat generation.groat.tot	5-me m 488	10 1	1	Rayan Hiro Raya (1999	**.110.07.079		Salacine TH-628188	4	

- 1. Open the **Location<->Group** tab and click the **Groups** button.
- 2. Click + Group he New Group dialog box displays.
- 3. In the New Group dialog box, type a name and description for the group and click **OK**. Group names cannot have spaces.

New Group		×
Name	concourse3_group_LW	
Description	L-wrap in con3	
	OK Cancel	

The new group will appear in the Group Name list:

Location<->Group Gr	oup<->Zone		
Locations Groups			
Groups			12 Groups
🕂 Group 🥖 Group	X Group Add Locations	🛛 😵 📄 Show only selec	ted 🖉 🔎 🔛 🗙
Group Name	Description	#Locations	#Zones
backoffice_group		0	1
bar_FSV_group	Full Screen Video	1	0
bar_LW_group	L wrapped content	1	0
Bar_Menu_group	Bar Menus	1	0
concession_group		0	2
concourse1_group		10	1
concourse2_group		10	2
concourse3_group_LW	L-wrap in con3	0	0
delay_group		0	1
emergency_group		0	1
locker_room_group	Blue locker room	0	1
luxury_fullscreen_group		0	1
luxury_mainscreen_group		0	1
nonevent_group		0	1
store_group		0	1
videowall_group		0	1

## Adding a Location to a Group

cisco Cisco	o StadiumVisio	on Control Pane	31			
			Setup	Control	Content	Ticke
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Location<->Group	Group<->Zone					
Locations   Group	50					
Locations Group	ps					
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Locations Locations Add To Groups	es 🔒 🔒 Assign Proxy	Show only selecte	d	٩	Bar	12 Locat
Locations Group Locations Add To Groups	😵 🕴 Assign Proxy	At Address	d Display Spac	Description	Bar #Groups	12 Locat
Locations Group Locations Add To Groups Name 106-C5(b-A-11ar-Camber	Assign Proxy TP Address	At Address	d Display Spec	Description Center line TV	Bar #Groups 1	12 Locat
Locations Group Locations Add To Groups Name 100-Club-A-Bar-Center 100-Club-A-Bar-Left	Assign Proxy TP Address CENTINELING 10.24.162.12	At Address	d Display Spec Panasonic-TH+42P/60	Description Center lise TV Left Bar TV	Bar #Groups 1	12 Locat

Before you can add Locations to groups and zones, the device location must first be added on the **Setup > Devices** tab in the Control Panel. See the *StadiumVision Video Endpoints Design and Installation Guide* for details.

- 1. Open the Location <-> Group tab and click the Locations button.
- 2. Select the groups to which you want to add locations and click **Add Locations**. The Select Groups screen displays showing the available groups.

Location<->Greep	Group-C->Zana						
Courtain Group	**						
Locations					ST-septement	Grapp	
Add to Grees	🛊 🔲 thek only i	betted.		PL	×	Remarc Smith View	riao 🚊 Showarky present 👘 🖓 🔄 🗙
Name Alt available	d'activity to access	HAT Address	Display Spec	Description .	/Grage	Group harms	a flacabara
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break ling	64.352.83,359		Ranazerico-Tee-K200k2	bryak ding	*>	GPTINOTEZ_BOOK_LM	1
Barra () 600	44.855.87.848		Jana	data daugi	100		
Same dea	171.03.04.357		00.00	famor data	4.0		
miani Dref	64.803.67.8M		00-00	mail dry	1		
prad oven	88.99.532.47		lana	grad take			
a fait pir	48.65.76.122		18-18	and m	3		
main 5	04.353.530.124	abie/i++/doialies	1010		1	*	
100.0	64.488.830.103	00-01-44-00-64 Ra	00.00		E.		
N 40 2.849	**.352.87.202		Lasa .	NUMBER OF STREET	4		

3. In the Select Groups screen, select group(s) you want to add to the locations and click OK. The groups must not already be assigned to a location (#Groups = 0). To narrow the list of groups, use the search function. You can add a block of groups or select multiple groups from the list using the CTRL-click and SHIFT-click keyboard functions.

Show only	selected			P		)
Name &	1P Address	MAC Address	Display Spec	Description	#Groups	
100-Club-A-B	64-101-100.1	00:0a:00:00	Panasonic-T	Center Bar TV	0	1
100-Club-a-8	10.24.167.12	00:05:00:00	Panazonic-T	Left Bar TV		
100-club-A-8	64.102.07.103	001041001001	Panasonic T	Right har TV	۵	
Dave DMP	64.102.87.202		LG-LG	dave drop	2	
Wei DMD	64.102.87.201		LG-LG	vivian's dmp	2	
biyan dinp	64.102.87.159		Panazonie-T	bryan dmp	2	
henry dmp	171.69.66.150		LG-LG	henry dmp	2	
mark DMP	64.102.87.190		LG-LG	mark dmp	2	
prad cuae	10.88.131.47		LG-LG	prad cuae	2	- 1
prad pc	10.65.76.122		LG-LG	prad pc	2	
rodn 1	64.101.138.1	0010f1441001	LG-LG		2	
redn 2	64.101.138.1	00:0f:44:00	LG-LG		2	

The groups are added to the selected location(s). Details about the groups display on the right Locations panel.

Localization         Discovery         France         Discovery         France	Location<->Group	Greup>Zene									
Add To Gridget     Image     Image<	Locations					Distance	Groups				
Name         I.P. Address         VAX. Marco         VAX. Marco         Description         Descriprot of the stription         Description of	Add Te Groups	I show only	selected			×	Hatteren, Ser	ILD VIEW	Show overlap	D	PLX
Life Cable - Raw Cases         A 101 Life (Lt)         M 1 An Introduction         Processes (Lt)	Name .	IP Address	HAE Address	Display Spin:	Description	+George	Group Home			flacations	
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Date Charter         Date Charter<	CO-CAB + \$2HAM	ALDEN 162.83	OC TR. BUILDING IN	Panaser in The Life and	Later To	14	SHOK SHOP			64	
Apple Bing         Act 201 AT 301         Data and other Discussion         Discusion         Discussion         Discussion	the fails in device of the	84.232.87.852	Manufacturines -	Personal Tri-Colorest	Public Raw TV		Ball, Marin, annual	1		12	
2440 dec. 2440 dec. 2 (00.000.05, grap 1)	Arpan Brig	84.235.87.398		Pahatorie-Th-43910.0	Seyan Sterp	- X	mental_print				
	Dana Oht	64.130.87.280		16.40	dare ana	1	innovium2, prost			10	
tany drag (71.95.65.15) 13-15 havy drag 2 interesting on parts 1	bally Brop	171.95.65.130		10-10	have deal	1	interest prop. 1			1	
nan DNP scale State Stat	index D167	64.535 83.5N		10.10	mark drug	2					

## Adding a Group to a Zone

- 1. Open the **Group<->Zone** tab and click the **Zones** button.
- 2. Select the zone(s) that you want to add the groups to from the Zones name list.
- 3. Click Add Groups.

	User	Management Z	nnes & Groups   Staging   Ch
Location<->Group	Group<->Zo	ne	
Groups Zones			
Zones			1
🕂 Zone 📝 Zone	🗙 Zone	Add Groups	🚱 🔲 Show only selected
Zone Name	A Descrip	tion	#Groups
backoffice_zone			1
concession_zone			1
concourse1_zone			3
concourse2_zone			2
concourse3_zone			0
delay_zone			1
emergency_zone			1
locker_room_zone	Blue lock	er room	1
luxury_fullscreen_zone			1
luxury_mainscreen_zone			1
nonevent_zone			1
one_zone			0
store_zone			1
videovall_zone			1

4. In the Select Groups screen, select the groups that you want to add to the zone(s) and click **OK**.

Select groups									
Show only selected	1	₽	×						
Group Name 🔺	Description	#Locations	#Zones						
100_concourse_group	Club A	12	1						
200_concourse_group	Club B	0	1						
bar_LW_group	L wrapped content	0	0						
concession_group		0	2						
concourse2_group		10	2						
concourse3_group_LW	L-wrap in con3	3	0						
			OK Cancel						

The groups(s) you added to the zones will display in the Groups panel at the right.

Location<->Group Grou Groups Zones	up<->Zone	8	
Zones			Groups
🕂 Zone 📝 Zone 🗙	Zone Add Groups	🚸 🛛 🖂 Show only selected	Remove from Zones Sw
Zone Name A	Description	#Groups	Group Name
backoffice_zone		1	concourse3_group_LW
concession_zone		1	
concourse1_tone		9	
concourse2_zone		2	
concourse3_zone		*	
delay_zone		1	
emergency_zone		1	
locker_room_zone	Blue locker room	L	
luxury_fullscreen_zone		1	-
husury_mainscreen_zone		1	1
nonevent_zone		1	
one_tone		0	
store_zone		1	
videovall_zone		1	

# Removing Groups and Zones

- Select the group or zone you want to remove. You can remove multiple groups and zones at one time. Use the CTRL-click and SHIFT-click keyboard functions to select the multiple groups and zones.
- 2. Click Remove from Zones or Remove Zones.

	User Management	Zanes & Granps   Staging   C	Channels   Devices   Luxury Suites   Proof of Play   Templa
Location<->Group	Group<->Zone		
Groups 20nes			
Zones			Groups
🕂 Zone 📝 Zone	X Zone Add Groups	😔 🔲 Show only selected	Remove from Zones Switch View
Zone Name	a Description	#Groups	Group Name Remove selected groups from the cones
backoffice_zone		1	States and States
concession_zone		1	
concourses_cone		3	
concourse2_cone		2	
concourse2_room			

3. In the confirmation dialog box, click Yes to remove the groups from the zones.

## Assigning Groups to Emergency, Delay, and Non-Event Zones

You'll notice there are three default zones in the Zones sources list: emergency\_zone, delay\_zone, and nonevent\_zone. You need to assign a group to each of these zones. These zones cannot be renamed. If you want to assign all DMPs to one of these zones, you can create a new group, add all DMPs to that group, and then add that group to the zone.

**Note:** Any DMPs which do not have an action in the emergency/delay state will have proof of play disrupted in the emergency/delay state.

**emergency\_zone:** All TVs assigned to this zone will display the configured Emergency message when the Emergency ad hoc state is invoked by the event operator.

**delay\_zone:** All TVs assigned to this zone will display the configured Delay channel when the Delay ad hoc state is invoked by the event operator. The Delay channel is defined on the Control Panel. Refer to the *Defining Channels and Channel Guides* document.

**nonevent\_zone**: All TVs assigned to this zone will display the default TV channel when there is no active event state.

# Managing Zones, Groups, and Locations

Once you have added zones, groups, and locations in Cisco StadiumVision Director, you can use the Zones & Groups screen to display, manage, and edit information the selected zone, group, or location as described in this section.

## Understanding Group and Zone Associations

For any action to be applied to a group, the group must be part of a zone. Some zones will only have a single group, but you need to define both. You can name them the same and simply append 'Zone' to the zone name and a 'Group' to the group name for clarity.

When you assign multiple groups to a zone, all the DMPs in those groups become part of that zone.

## Viewing Zone, Group, and Location Associations



Click the **Zones**, **Groups**, and **Locations** buttons on the **Zones & Groups** tabs to display the zones, groups, and location lists in the left column of the Zones & Groups screen. To view information about an item in the list, simply select it. The associated information will display in the right column on the screen. The numbers in each column indicate the number of zones, groups, and locations are associated with the selected item. Numbers that are underlined in blue are hot links that you can click to display more details about the selected item. The details display in the opposite side of the screen.

In the example shown below, there are 10 locations for the concourse1\_group. When you click the number '10' link, the screen displays the DMP Name, IP Address, MAC Address, TV Display Spec, and the number of groups for each of the 10 locations for the concourse1\_group. The information displays in the Locations panel on the right.

Location c ->-Greup	resp(-) Zene								
Locations (Design)				<u>.</u>					
GROUP			13 mmm	Lacations					
🕂 Group 🥖 Group	X Group Add Locations	🚯 🛄 Show only se	ettet 🖉 🛄 🗙	Resident Press Gross	eni Switch View	al Robe Sverter al 1	towards and and	PL	1)
Erray hares	a Decomption	Plantime	# former	Name :	a	HAL ADDING	Dealery Spec	Aleman	1000
And office, proge		1	1	100-Ciubrit Der Left	10.04.100.00	00.04483.09.08706	Panaser to TH 42P058	- 1	
hard the proof	Full Invant Volum	x		beyan thep	44-203-03-270		Rendering Terring Sold and	1	
hw.17,prie	L wrapped centers)	1	4	Dave 048	14.100.47.200		1010	1	
har Mini James	Aut Parint	6		Testing Deligi	171.09.66.170		1.7-1.9	1	
same inter_press		4	X	mark DPP*	14.102.07.190		15.66	1	
in example and	14	183	1 1	prod Line	85.85.552.47		1048	1	
anter area 2, group	ht-	39		pred pe	\$5,45,74,522		1244	2	
delm. gross		6	83	red- 3.	64,005,028,004	00-01-4×-00-01-00	1016	2	
emorganit, prog		¥2	1	19812	61.535.33V.383	ROVER BE ROVER BE	19-14	1.1	
loke.com, ena	the lock of more	6	*	Pai 299	84.102.07.200		1010	2	
herary Addresser, group			*		Sector Connector		LA MO		1
lunary manufactory gene		1	8						
niterate gin p		1. C	1						
den, pro. p		e .	4						
story, heroids			1						

# Finding the Group and Zone to which a TV Belongs

- 1. Select the **Location <-> Group** tab and click the **Locations** button.
- 2. Select a location name. In this example, rcdn-1 is selected. The number of groups to which this location belongs shows under the #Groups column (in this example, there are 2 groups). The names of the groups to which this location belongs displays in the Groups panel at the right.

Location-C-> Group	Grospic->Zoos						
Louise Louis	**						
Locations .					L2 Labeliena	Groups	
Add to Groups	🚸 Assign Proxy	Show only beliefte	d	PL	×	Remier South Vers 1. 15	en en el transmission de la companya
-		MAC Address	Designing Speet	Description	Planta .	Long Kales	a experience
109 Civit A die Certer	84 101 105 101	00/04/00/00/04/04	Paranersis TH SOFIED	Cartie Der TV		samona red, greue	17
LING WAR ARE LAR.	80.01.002.62	08-08-08-09-08-08	Paranetic TRACERS	3.475 841 77		toriourd2, preas	11
108-048-448-4494	exintering .	TRANSFER OF BRIDE	Information and include	Nig11 Kie 11	1		
Dava 2080	54 c01.0P.368		Leve	date data	+		
Mill Com-	44.102.07.008		late	waters and	1		
Bryan 2010	44.112.07.119		Parameter designed	Areas drip	1		
Keen's shout	171.17.04.170		Lece	Barridra.	1		
mail DHF	44.103.07.198		Leve	mail dea	2		
print tunn	10.00.001.00		LOUR	grad mas	1		
grid as	10.49.75.832		1010	gradat	+		
100.2	24 LTL 101 304	10-044-024-03	1444	- Pi	11 1		
audio II	94 101 E08 E00	contractor Ana	la-ce.		1		

3. Select a group from the Groups panel and click **Switch View**. The number of zones for the selected group displays under #Zones (in this example, there is 1 zone):

Groups			137 000-007	LOUISTINKS				
+ Group / Group	X Group Add Locations	🚯 🔄 More uniç selected	P X	Resources Frank Group	n	I the second second	ferri unity sufficient	P 🛛 🗙
Group Name	Densiplies	Flocations a Flores		Name .	IP Address	PLAT Address	Display Spec	Firege
dalah, gan.g		4	41	souther the second	30.24.242.52	#1-#1-#1-#1-#1-#1	Renaucourters (\$100	1
encounter, annual		8	2	brean dem	04.002.07.029		Paramis: 791-127000	4.
energetoly_print		8	1.1	Tites OW	44.143.97.203		39-19	1
hours Jalacenes, area		£.	2	have dra	171.63.06.100		10.0	4.1
hours, management, prove		#	1 C	10 als 2017	44.002/07.000		heis	1
(fore_arcs)		£	4	print core.	10.06.121.47		1.01.0	1
had affine group			# /:	pred pt	10.08.75.225		10-14	X.
educat, prop		*	2	Auto R		901-07-44-00-19151	1010	2
Anthen, restminational	Elet loth trans	¥	3	veen 2	24.403.100.300	00.01-04.00.015+	10.04	1
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movement, aroust		4	+	a subserve a				
Bir, New, price	Bior Manual	8.						
bar, D.W., gring	A seasond contern	3	*					
Bas-FIV, per-at	Full Stream Wideo	a	*					
incontel, proc		34	1					

4. With the Group name selected, click on the number link in the #Zones column to show the zones to which the selected group belongs (in this example, concourse1\_group belongs to 1 zone).

Gracipa				Zmet					
Group / Gro	we 🗶 Greup	Add to Zenes	🖡 📋 Show only selects	Remet	South View	Dice sento	🔄 linus ork sitemat	£	 
	Beautypiters.	#Locations	#form	Lore Hales			CountyNam	#langs	
day, 9742		14	14	involute1_pairs	422				
maine, prot									
and the second second		194	4						
ing talantar, price		1.1	1						
wy, mahasan, go.,			1.						
1.8.1.1.8			34						
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anal_prod			34						
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with a set of a set o	k/wrap in exists			1					
nevert press			16.						
a Maha Laman	Ran Marcul	1							
LW.pesse	L unacated content	1							
area and	Pull topics today.	- A.							
101.012.014.0		18	2						
and the second se			1 m m m m m m m m m m m m m m m m m m m						

- 1. Open the Location<->Group tab and click the Locations button.
- 2. Select the locations from the left column and the groups from the right column and click **Remove**.

Location Cross	1	Group: ->Zoon												
Locations	-							Lination	Granpt					
Add To Groups	÷	Assign Prevy	Distance of the selected		1	PÍ	 	×	Remove	Switch View	D Powders	🗉 🛄 Show only selected	P	
hame	*	IP Address	MAI Address	Inspire Spec	<b>Exceptor</b>		FERRE		searched .	ten autorinen har	a contraction of the	Alacohoa		
100 Car A Sar-Carle		CK101.135.345	ED.Excelor.co.de		Tenter Her To		T.		THE OWNER WHEN			1		
Parents-a-gar-tall		10 14 142 12	kinghron-on-ch im	Ranaulas-TH-420348	Jan Bie Tr									
100 Cui Ada: Ruli		84.092.07.128	03.6+.00.00.8u.0+		Ruthe W.		L.							
								-						

A confirmation dialog displays for your to confirm or cancel the operation.

Remove association	2
	2
	2
Are you sure you Locations from G	want to remove selected iroups?
Don't show this dia	log again No

3. Click **Yes** to remove the locations from the selected groups. Once removed, they will no longer show in the groups list for those locations.

## **Regrouping and Rezoning Locations**

Once you have added and added and assigned locations to groups, you can regroup them by removing all the locations from the selected groups and then re-assigning the locations to other groups as described here.

- 1. Select the **Location<->Group** tab and click the **Locations** button.
- 2. Select the locations that you want to re-group. The Groups panel on the right will display the groups assigned to the selected DMPs.

Location c -> Group	Grenge >Zene						
Louisia Group							
Locotiens					Sitesener.	Groups	
Add To Groups	😫 🛄 Shew only	ustientient?		P.[	×	Remarker - Testich Wyss	al 🔝 New style as been it 💦 🔛 🗙
Asses	a 10 Address	HAX Address	Benday Spec	Bescription	Firmer	Ersep hans .	Fianataru
100-Chile-Mar-Cautar	\$4,181,138,178	STANSFERENCE.	Fatances The Silling	Banter Ball TV		La PERSONA	
Distant endances	10.24 (42.83	ACIESTICS COLOR	Parazesis (M.C.D.A.C.	Latte Tr	1	Aug/Augenei	
DR CLORENCE MINT	#4.282.87.332	40.00.00.00.00.0	Parasent Tristent	ExAte:Tr		Ex.Necs.size	
Brook Brig	48382.07.350		Parazase (Brite) (Brite)	Area are	11	inconstrait_prog	10
Dara DWF	64,310,87,265		1010	date day	3	sensered area	140
hance large	171.07.05.130		1040	Barry Mark	1	manural_page.m	1
man 200P	64,282,67,210		1544	11 a.1. (014	1		
prat cusa	10.00.235.47		Amon .	praticuas.	1.0		
acut at.	10-48.76 522		1969	product.	11		
and a literature	44,332,139,104	40.01 av 40.41 by	10-10		3	1	
+181 2	64.088.536.100	80-81-91-80-61 Se	1.6-14		1		
W-41 2.14W	44.000.07.000		1.8-0.6	shiar's drag	*		

- Select the groups from the Groups panel. You can use the shift click keyboard function to select a block of groups. The selected groups and locations are highlighted in green on both the Locations and the Groups panels.
- Click Remove to remove all the locations from the selected groups. A warning dialog displays for you to confirm or cancel the operation.

Location Crossp	Greop<>20m						
facellani Gran							
Lecations					LI LANSON	Groups	
Add To Groups	6 G they only :	Detroited		2	×	Remove Switch View	to 🗌 Shos only selected 🔰 🖉 🗶
Nate .	a 19 Advess	MAC Address	Display long	Description	# Georgian	Group Name Agence Institute I and the school of press	Aucatere
DO-CHINE BIN CANE	45.275.235.23F	EB-Car (K. (COMMAN)	Annanya IN 221942	Cartar Sar Tr		Bir John Bridge	1412
20 Class # Sec Left	10.04.040.02	cercle aciecidente	Parament, TH 425040	Letter To	18	ke,tw.ene	(3)
Distance and pre-			PROPERTY OF LOT AN	Right Bar 10		Excession and the second se	241
	Are you sure Locations fre	≥ you want to i om Groups?	remove select	ed			
Don Don	't show thi	s dialog aga	in es Ni				

- 5. Click **Yes**. The selected groups will be removed from the Groups panel.
- 6. Select the **Location<Group>** tab and click **Groups**. Optional: click the switch view button so you can see the groups on the left and the locations on the right.
- 7. Select a group. You can use the search function to quickly find the group you are looking for.

Location c->-Group Group C-> Done							
Locations Groups							
Groups		48 (Prop)	Locotines				
-Greep / Greep X Greep	Add Locations 🛛 🚸 📋 Show only	selected P Into X	Numper Plan Grid	apt Switch Wenn	III Biow History III D	we give adopted	2
Errag harar a Description	-Plac place	# Romers .		a 19 Address	HAL Address	thickey tem	* George
tar 200 genetic to respect to a	An 4 6		20 Chile A Barr Laff	80.2+.643.63	80-06-80-80-86-86	For second TH+27800	
malarma para		4	ruan derp	44.101.07.139		9 at assistentie-0.002000	2
and a set	10		wie Criti	44.101.07.203		1010	1
Electronical diselation	1.0	1	ancy timp	\$75,43146.550		1944	1
Contraction (Contraction of Contraction of Contract	1.1.1		white the	64,002,87,192		1.64.6	1
		-	red code	10.00.121.47		1040	+
			rad pro	10.45.74.122		1.915	4
		-	4-2-	84.101.131.139	ap-of-ex.co.phes	1010	1
			812	\$4.191.101.102	10.0144-08-09-59	1010	2
		1.	Tel DRW	84,102,87,201		1.046	2

- 8. Select the locations you want to add to the selected group from the Locations panel.
- 9. Click Add Locations.

Location C > Group 5	/RUB<->2068								
Granges				11 Sea	Locations				
🕂 Greep 🥖 Greep	X Group	Add Locations	6 Daraw	priy selected 💫 🖓 🕅 🕽	E Romove Frem Gre	aps Seritch View	all they martin 🖬 🕯	Provioniy selected	P
Broup Hanse	+ Description		Alexañiere	4 Gamma	. Value	a IP Address	HAL Address	Display Spin.	Alexas
Bar, 19, price	A lange and ga	pare :			and characteristic	10 14 14 1 1	In the other back	Balance (Treatment	4.1
LEGHTER, PTVS			£	1	beven dinal	Q+123.87.890		Fartestein Tri-13F828	1 E
and the second second			14	4	Date Diff.	84 STO 85, 282		101.0	13
menteral program			30	1	henry drap	171.07-66.290		10-00	1
W., mod, fair cook	Arwine Prices	# C	¥.		mark Crist	04.102.87.390		1910	1
					grad case	10.05.272.47		4944	
					and as	10.47.74.122		49-10	1
					redn. g	##.100.138.55#	con off-eat-con +44 and	345.0	8.0
					outo 2	6+101100.000	20.06++-00.6/.5a	4510	E
					Total Intel	04 100 45 5H		1010	

10. Select the locations you want to add from the Select Locations screen and click OK.

Select Locations									
Show on	ly ⊆	elected		↓ 100					
Name	۸	IP Address	MAC Address	Display Spec	Description	#Groups			
100-Club-A-B	s	64.101.138.105	00:0a:00:00:	Panasonic-TH	Center Bar TV	1			
100-Club-A-B	s	10.24.162.12	00:05:00:00:	Panasonic-TH	Left Bar TV	з			
100-Club-A-B	s	64.102.87.133	00:0c:00:00:	Panasonic-TH	Right Bar TV	1			
	OK Cancel								

The locations are added to the list of locations for the selected group(s). The #Locations column indicates how many locations are now in the selected group.

Location<->Group Grou	p<->Zone								
Locations Groups									
Groups			16 Groups						
🕂 Group 🥖 Group	X Group Add Locations	🚯 📄 Show only seled	ted 🔑 💿 🗙						
Group Name A	Description	#Locations	#Zones						
bar_LW_group	L wrapped content	0	0						
concession_group		0	2						
concoursel_group		12	1						
concourse2_group		10	2						
concourse3_group_LW	L-wrap in <u>con</u> 3	3	0						

# Assigning a Proxy DMP to a Location

A location can be setup as a proxy of another location in the venue so that you can view what is going to be displayed on a TV. This helps you to verify that the proper content is assigned for a particular group and location. Only DMPs with type 'Location With Network' can participate in proxy activities. This is configured through the **Setup > Devices > Locations & DMPs** panel. Refer to the *StadiumVision Video Endpoints Design and Implementation* Guide for instructions.

To assign a proxy DMP to a location:

- 1. Open the **Location<->Group** tab and click the **Location** button.
- 2. Select a location from the list.
- 3. Click Assign Proxy. A screen showing the list of available proxy locations displays.
- 4. Select a location from the list and click OK.

Available P	Available Proxies X										
₽											
Name	IP Address	MAC Address	Target Name	Target IP Addre	Target MAC Add						
				0	K Cancel						

# Editing the Name and Description

Once you have added a zone or group, you can edit the name and description at any time as follows:

/ Group

- 1. Open the Location<->Group tab and click the Zones or Groups button.
- 1. Select the group or zone name you want to edit.
- 2. Click the zone or group edit button:
- 3. In the Edit dialog box, edit the name and/or description and click **Save**. The new name and description will display in the zone or group list.

Edit Zone	×
Name	concourse3_zone
Description	300 Level
	💾 Save Cancel

# **Best Practices for Zones and Groups**

When deploying zones and groups, consider the following:

### Rules for Groups and Zones

- The more groups and zones you have, the more complicated the deployment becomes.
- To simplify the deployment, keep the number of unique advertising areas, exit directions, and welcome screens to a minimum.
- While it is possible for a zone to have different screen templates throughout the course of an event, the more screen templates you use, the more complex the deployment and administration becomes. To simplify the system management, limit the number of screen templates for a given zone.
- A DMP can be in different zones during each event state.
- A DMP that is in multiple zones and groups cannot have more than one action assigned to it for a given event state.
- A DMP can be in only one group at a given state. However, a DMP can switch groups when in a different event state.
- The maximum number of groups that is supported for a zone is 20; however, typically you'll have three or four groups for a given zone.
- The maximum number of zones supported in a venue is 100; however, 20 zones is typical for a given venue.
- The background for an RSS ticker can change per group/zone.
- All zone and group names must be unique.

# Limits for Deploying Zones and Groups

Table 2 defines the limits for deploying zones and groups.

**Table 2.**Limits for Deploying Groups and Zones

Specification	Limit
Max number of zones	100
Max number of groups	500
Max number of groups per zones to be supported	20
Max number of event states	50
Max number of templates you can have in different groups and zones for a single event state	50
Max number of luxury suites	500
Max number of DMPs	5000
Number of items per playlist	1200