

RMServer



***Keep these important operating instructions.
Check www.meyersound.com for updates.***

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RMServer Quick Start Guide, PN 05.222.005.01 C

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CHAPTER 1: INTRODUCTION

This Quick Start guide discusses how to do the following:

- Connect RMServer to your computer and RMS-equipped loudspeakers (see Chapter 2, “Compass Hardware Connections”).
- Install and configure RMServer software (see Chapter 3, “Compass Software Installation”).
- Use the Compass control software to create pages, groups, and monitor loudspeaker data (see Chapter 4, “Using Compass Software”).

HOW TO USE THIS MANUAL

Make sure to read this user guide in its entirety before configuring a system with Compass RMS. In particular, pay close attention to material related to safety issues.

As you read this user guide, you will encounter the following icons for notes, tips, and cautions:



NOTE: A note identifies an important or useful piece of information relating to the topic under discussion.



TIP: A tip offers a helpful tip relevant to the topic at hand.



CAUTION: A caution gives notice that an action may have serious consequences and could cause harm to equipment or personnel, or could cause delays or other problems.

Information and specifications are subject to change. Updates and supplementary information are available at www.meyersound.com.

Meyer Sound Technical Support is available at:

- **Tel:** +1 510 486.1166
- **Tel:** +1 510 486.0657 (after hours support)
- **Web:** www.meyersound.com/support
- **Email:** techsupport@meyersound.com

CHAPTER 2: COMPASS HARDWARE CONNECTIONS

This chapter discusses how to connect RMsServer to your computer and RMS-equipped loudspeakers, and how to upgrade an Echelon iLon system.

CONNECTING RMSERVER TO YOUR COMPUTER

RMsServer can connect from its RJ-45 port to a computer Ethernet port, network router, or network switch with a shielded CAT-5e cable. This connection allows remote control from a Mac® or Windows® computer running the Compass control software. RMsServer can share the same network with Galileo processors and other network-controlled Meyer Sound devices.



NOTE: If you use a router to connect RMsServer to a computer, make sure it is correctly configured.

RMsServer ships from the factory with a static IP address set to 192.168.0.120. If your network uses a 192.168.0.x network range, you need not change the IP address.

To change RMsServer's IP address to another network range:

1. Open a browser window and enter the host name (*rmserver[serial number].local*) in the URL address field. The RMsServer's serial number and MAC Address are on the rear panel.

Meyer Sound recommends the following browsers: Internet Explorer, Apple Safari, Google Chrome, or Mozilla Firefox.
2. Log in to RMsServer's web server with the default user name and password: *admin*

3. Click the **BASIC SETTINGS** tab.

The screenshot shows the RMServer web interface. At the top, there are three tabs: 'DASHBOARD', 'BASIC SETTINGS', and 'ADVANCED SETTINGS'. The 'BASIC SETTINGS' tab is selected. In the top right corner, there are links for 'Help' and 'Logout', and the text 'RMServer'. Below the tabs, there is a section titled 'Host and Network Information'. This section contains several fields: 'Device Name' (RMServer #3), 'Configure Network' (Manually), 'Current IP Address' (192.168.0.120 (Static)), 'Static IP Address' (192, 168, 0, 120), 'Subnet Mask' (255, 255, 255, 0), 'Gateway' (192, 168, 0, 1), 'Search Domain', 'Primary DNS', and 'Secondary DNS'. A 'Save' button is located below these fields. Below the 'Host and Network Information' section, there is a 'Security' section with a 'Username' field containing 'admin' and an 'Edit...' button.

4. Enter the desired IPv4 network address in the **Static IP Address** fields.
5. Click **Save**.
6. Click **Logout** then reboot RMServer. The new IPv4 address will be used after RMServer reboots.

For more information on changing RMServer's IP address, see the *Compass RMS Hardware Guide* (PN 05.222.006.01 Rev. A) available at www.meyersound.com.

CONNECTING RMSERVER TO RMS-EQUIPPED LOUDSPEAKERS

RMServer connects to RMS-equipped loudspeakers or an MPS-488HP power supply through twisted-pair cable. To minimize cable length in a Compass RMS network, groups of neighboring loudspeakers can be daisy-chained.

For information on Compass RMS networks and RMServer client and cabling limits, see the *Compass RMS Hardware Guide* (PN 05.222.006.01 Rev. A) available at www.meyersound.com.

UPGRADING TO RMSERVER FROM AN ECHELON ILOON SYSTEM

Previous RMS networks used Echelon iLon hardware. To upgrade from an iLon to a Compass RMS network, see the RMServer section of *Compass RMS Hardware Guide* (PN 05.222.006.01 Rev. A) available at www.meyersound.com.

CHAPTER 3: COMPASS SOFTWARE INSTALLATION

The Compass software and helper programs included on the Compass installation USB flash drive are frequently updated. To download the latest software, visit the *Meyer Sound Software Updates* page:

<http://www.meyersound.com/products/software>

COMPATIBLE OPERATING SYSTEMS

Active Meyer Sound products are compatible with current Apple Computer and Microsoft Windows operating systems, and one release prior to the most current. For more information about specific versions, visit the *Meyer Sound Software Updates* page:

<http://www.meyersound.com/products/software>

INSTALLING AND CONFIGURING COMPASS IN MAC OS X

Installing Compass in Mac OS X

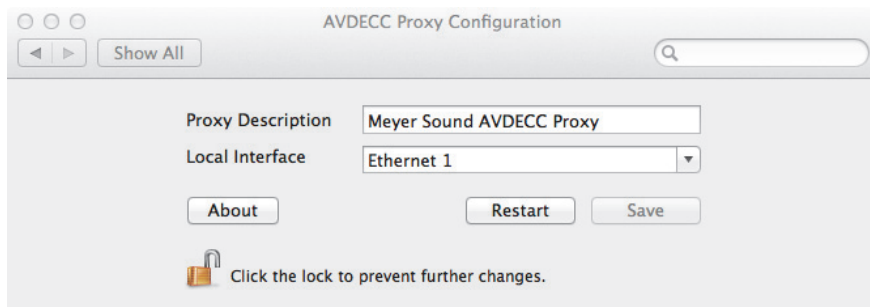
To install Compass and helper utilities on Mac OS X:

1. Insert the Compass installation USB flash drive in the Mac OS X computer.
2. To install the AVDECC Proxy system preference panel, open **avdeccproxy-[1.x.x]-macosx.pkg** on the USB flash drive, and follow the installer's instructions.
3. To install the Compass application, open **Compass-[3.x.x-x]-osx-universal.dmg** on the USB flash drive, and follow the installer's instructions.

Configuring Compass in Mac OS X

To configure your system to connect to an RMServer on your network:

1. Open the AVDECC Proxy panel from System Preferences. The AVDECC Proxy Configuration window opens.



2. Select the **Local Interface** used to connect Compass to your RMServer. Meyer Sound recommends the Ethernet Local Interface.
3. Click **Save**.
4. Click **Restart**.



NOTE: An AVDECC Proxy process runs in the background on your computer. It is accessible from the System Preferences.

INSTALLING AND CONFIGURING COMPASS IN WINDOWS

Installing Compass in Windows

If you have an internet connection, you can install the Compass Software using the bundled installer.

To install Compass and its helper utilities on Windows using the bundled installer:

1. Insert the Compass installation USB flash drive in the Windows computer.
In each of the next steps, follow the standard extraction and installation instructions.
2. Run the **Compass-3.x.x-xxxx-Installer.exe**. The four digits following the version number comprise the build number of the Compass Program.
3. Follow the instructions to install the helper programs (Bonjour, WinPcap, and AVDECC Proxy). The installer skips programs already installed.

After the helper programs finish installing, the Compass program installs. It automatically upgrades any previous Compass control software.

If you do not have an internet connection, you must download the unbundled installer files from:

<http://www.meyersound.com/products/software>

To install Compass and its helper utilities on Windows using the unbundled installer, you must install each application in the following order:

1. To install Bonjour Print Services, unzip **BonjourPSSetup.zip**, run the installer, and follow the instructions.
2. To install the WinPcap packet capture tool, open **WinPcap_[4_x_x].exe** and follow the instructions.
3. To install the AVDECC Proxy utility, open **avdeccproxy-[1.x.x]-win32.msi** and follow the instructions.
4. To install the Compass software application, open **Compass-[3.x.x]-[xxxx] Windows.msi** and follow the instructions.

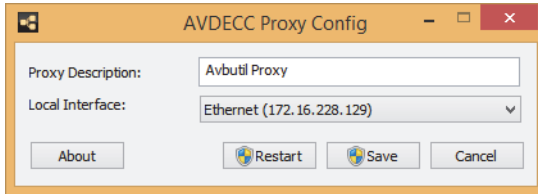


NOTE: Bonjour, WinPcap, and AVDECC Proxy processes run in the background on your computer. They can be accessed using the Services tool in *Windows Control Panel > Administrative Tools*.

Configuring Compass in Windows

To configure your system to connect to RMServers on your network, you must launch the AVDECC Proxy application:

1. From the *Computer > Program Files > Meyer Sound* folder, open **AVDECC Proxy**. The **AVDECC Proxy Config** window opens.



2. Select the **Local Interface** you wish to use to connect Compass to your RMServers.



NOTE: Since WinPcap does not allow sending raw data packets over a wireless network, Compass RMS for Windows cannot be used with wireless networks.

3. Minimize the **AVDECC Proxy Config** window so you can quickly to check service status.

To check the status of the AVDECC Proxy service, click the task bar notification area.

If the AVDECC Proxy service stops for any reason, you must reboot your computer and restart the service to restore Compass communication with RMServers.

CHAPTER 4: USING COMPASS SOFTWARE

This chapter will help you get started quickly using the Compass software.

FINDING AND CONFIGURING RMSERVERS AND LOUDSPEAKERS

To find connected RMServers:

1. Open the Compass application.
2. Click the **RMS** tab. Compass automatically searches for running RMServers connected to the local network and displays them on the **Network** page of the **RMS** tab.

The screenshot shows the Compass RMS software interface. The top navigation bar includes tabs for 'Compass', 'CAL', 'RMS', 'Galileo', 'Overview', 'Groups', 'Controls', and 'Galileo Callisto 616 AES'. Below this, there are sub-tabs for 'Network', 'Page Configuration', 'ALL SYSTEMS', 'HOUSE LEFT MAINS and SUBS', and 'GRID, PLATFORM, FX, SURROUNDS'. The main window displays a table of RMServers and Loudspeakers with columns for Device Name, Product, RMServer Mac Address, RMServer IPv4/Speaker S, Node Usage, Status, Mute, Solo, Polarity, Firmware, and Comments. The table is expanded to show details for 'Venus #1 RMServer13244112' and 'Venus #2 RMServer13244119'. The 'Mute Enabled' button is highlighted in red.

Device Name	Product	RMServer Mac Address	RMServer IPv4/Speaker S	Node Usage	Status	Mute	Solo	Polarity	Firmware	Comments
↳ Venus #1 RMServer13244112	RMServer	00:1C:AD:00:37:26	192.168.71.115	6 / 50	Online				1.3.0-1278	
↳ ZONE 1	MINA	002060753400	11175711		Online			+2	Rms4	RMS Speaker Node
↳ ZONE 2	MINA	002061296800	10050807		Online			+2	Rms4	RMS Speaker Node
↳ ZONE 3	MINA	002060925900	10321456		Online			+2	Rms4	RMS Speaker Node
↳ ZONE 4	MINA	002076410200	10908654		Online			+2	Rms4	RMS Speaker Node
↳ ZONE 5	MINA	002060765900	11175713		Online			+2	Rms4	RMS Speaker Node
↳ ZONE 6	MINA	002061741000	10987654		Online			+2	Rms4	RMS Speaker Node
↳ Venus #2 RMServer13244119	RMServer	00:10:A5:00:37:1D	192.168.71.113	7 / 50	Online				1.3.0-1278	
↳ Left End Fire 10	700-HP	002233399200	11276978		Online			+2	Rms3	RMS Speaker Node
↳ Left End Fire 20	700-HP	002231404200	12276854		Online			+2	Rms3	RMS Speaker Node
↳ Left End Fire 30	700-HP	002220970900	12276853		Online			+2	Rms3	RMS Speaker Node
↳ Left End Fire 40	700-HP	002237784900	12276999		Online			+2	Rms3	RMS Speaker Node
↳ SF Left Inner	MSL-4	001821140200	08277980		Online			+2	Rms3	RMS Speaker Node
↳ SF Left Outer	MSL-4	001958056700	09377075		Online			+2	Rms3	RMS Speaker Node
↳ SF Left OuterDF	DF-4	002239713700	01263954		Online			+2	Rms3	RMS Speaker Node
↳ Venus #3 X1 Rack RMServer13244104	RMServer	00:10:A5:00:37:1F	192.168.71.140	6 / 50	Online				1.3.0-1278	
↳ Center Cluster	MVC-5	001239065500	05342243		Online			+2	Rms3	RMS Speaker Node
↳ JM-1P Inner	JM-1P	002307856700	12176819		Online			+2	Rms3	RMS Speaker Node
↳ JM-1P Outer	JM-1P	002238021600	12176820		Online			+2	Rms3	RMS Speaker Node
↳ Platform 500 #1	500-HP	002232013300	12345678		Online			+2	Rms3	RMS Speaker Node
↳ Platform 500 #2	500-HP	001921299500	09177898		Online			+2	Rms3	RMS Speaker Node
↳ Platform CQ-1	CQ-1	001630158200	07879981		Online			+3	Rms3	RMS Speaker Node
↳ Venus #4 X1 Rack RMServer13244105	RMServer	00:1C:A5:00:37:20	192.168.71.135	31 / 50	Online				1.3.0-1278	
↳ Fill System 1	MPS-488HP	028F50F00000	12343082		Online			N/A	Rms4	RMS Speaker Node
↳ Fill System 2	MPS-488HP	02A695C70300	12247040		Online			N/A	Rms4	RMS Speaker Node
↳ GRID FX 1	MID	001972760900	10377887		Online			+2	Rms3	RMS Speaker Node
↳ GRID FX 2	MID	002077714100	10377880		Online			+2	Rms3	RMS Speaker Node
↳ GRID FX 3	MID	001966818900	10377889		Online			+2	Rms3	RMS Speaker Node
↳ GRID FX Sub 1	MID-Sub	002232766100	11279540		Online			+2	Rms3	RMS Speaker Node
↳ GRID FX Sub 2	MID-Sub	002233404500	11279542		Online			+2	Rms3	RMS Speaker Node
↳ GRID FX Sub 3	MID-Sub	002230913300	11279544		Online			+2	Rms3	RMS Speaker Node
↳ Stage Monitor 1	UM-1P	02F500007000	00000000		Online			+2	Rms3	RMS Speaker Node
↳ Stage Monitor 2	UM-1P	024A5E007000	00000000		Online			+2	Rms3	RMS Speaker Node
↳ Stage Monitor 3	UM-1P	024161007000	00000000		Online			+2	Rms3	RMS Speaker Node
↳ Stage Monitor 4	UM-1P	02C32F50C000	12345668		Online			+2	Rms3	RMS Speaker Node
↳ Surround 1	1PM-1P	001677777700	03429934		Online			+2	Rms3	RMS Speaker Node

3. To find loudspeakers and devices equipped with RMS Modules that are connected to this Compass system, click **Discover All Loudspeakers**. Depending on the system size, this can take several minutes.

Setting IDs for Legacy RMS Cards

Loudspeakers and modules with older RMS cards will not automatically report their type and ID (serial number) to Compass. They must be manually set in Compass before they can be used in a Compass RMS network. These parameters must be reset if the RMS module is moved to a different loudspeaker.



TIP: When updating an entire system of legacy RMS modules, we recommend making a list of all models and serial numbers before beginning.

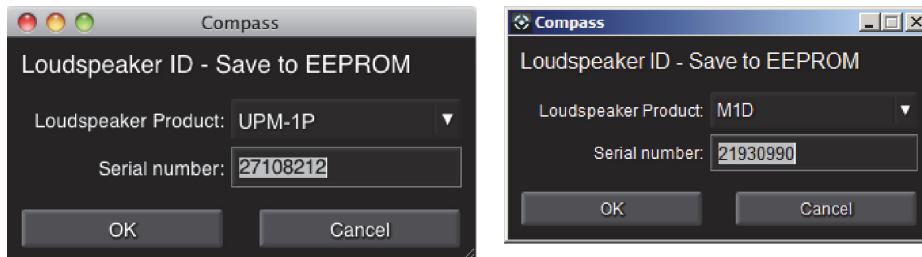
To set the loudspeaker type and ID (serial number) for a legacy RMS-equipped loudspeaker or module:

1. Right-click the desired loudspeaker in the **Product** column, and choose **Initialize Loudspeaker Identity** from the menu.

The screenshot shows the Compass RMS software interface. The main window displays a table of RMS devices with columns for Device Name, Product, RMS Server Mac Address, RMS Server IP4/Speaker S, Node Usage, Status, Mute, Solo, Polarity, Firmware, and Comments. A context menu is open over the 'JM-IP Inner' device, with 'Initialize Loudspeaker Identity...' selected.

Device Name	Product	RMS Server Mac Address	RMS Server IP4/Speaker S	Node Usage	Status	Mute	Solo	Polarity	Firmware	Comments
- Venus #1 RMSServer13244112	RMS Server	00-1C-AB-00-37-26	192.168.71.115	6 / 50	Online				1.3.0-1278	
- ZONE 1	MNA	002060753400	11175711		Online			+2	Rms4	RMS Speaker Node
- ZONE 2	MNA	002091285600	10909807		Online			+2	Rms4	RMS Speaker Node
- ZONE 3	MNA	002050925000	10321456		Online			+2	Rms4	RMS Speaker Node
- ZONE 4	MNA	002076410200	10908554		Online			+2	Rms4	RMS Speaker Node
- ZONE 5	MNA	002060765900	11175713		Online			+2	Rms4	RMS Speaker Node
- ZONE 6	MNA	002081741000	10907854		Online			+2	Rms4	RMS Speaker Node
- Venus #2 RMSServer13244119	RMS Server	00-1C-AB-00-37-1D	192.168.71.113	7 / 50	Online				1.3.0-1278	
- Left End Fire 10	700-HP	002233399200	11276978		Online			+2	Rms3	RMS Speaker Node
- Left End Fire 20	700-HP	002231404200	12276854		Online			+2	Rms3	RMS Speaker Node
- Left End Fire 30	700-HP	002230978900	12276853		Online			+2	Rms3	RMS Speaker Node
- Left End Fire 40	700-HP	002253784000	12276999		Online			+2	Rms3	RMS Speaker Node
- SF Left Inner	MRS-J	001821140200	08277980		Online			+2	Rms3	RMS Speaker Node
- SF Left Outer	Mute Selected Speaker	0	09377075		Online			+2	Rms3	RMS Speaker Node
- SF Left OuterOP	Unmute Selected Speaker	0	01626894		Online			+2	Rms3	RMS Speaker Node
- Venus #3 X1 Rack RMS	Solo Speaker	37-1F	192.168.71.140	6 / 50	Online				1.3.0-1278	
- Center Cluster	Remove Selected Items From RMS Server Inventory	0	05342243		Online			+2	Rms3	RMS Speaker Node
- JM-IP Inner	Initialize Loudspeaker Identity...	0	12176818		Online			+2	Rms3	RMS Speaker Node
- JM-IP Outer	Erase Loudspeaker Identity...	0	12176820		Online			+2	Rms3	RMS Speaker Node
- Platform 500 #1		0	12345678		Online			+2	Rms3	RMS Speaker Node
- Platform 500 #2	500-HP	001921239500	09177898		Online			+2	Rms3	RMS Speaker Node
- Platform CQ-1	CO-1	001630165200	07879861		Online			+3	Rms3	RMS Speaker Node
- Venus #4 X1 Rack RMSServer13244105	RMS Server	00-1C-AB-00-37-20	192.168.71.135	31 / 50	Online				1.3.0-1278	
- Fill System 1	MPS-48BHP	028F5DF0C000	12343082		Online			N/A	Rms4	RMS Speaker Node
- Fill System 2	MPS-48BHP	02A565C70300	12247040		Online			N/A	Rms4	RMS Speaker Node
- GRID FX 1	MID	001972163900	10377887		Online			+2	Rms3	RMS Speaker Node
- GRID FX 2	MID	000707741100	10377889		Online			+2	Rms3	RMS Speaker Node
- GRID FX 3	MID	001966851800	10377889		Online			+2	Rms3	RMS Speaker Node
- GRID FX Sub 1	MID-Sub	002232765100	11279640		Online			+2	Rms3	RMS Speaker Node
- GRID FX Sub 2	MID-Sub	002234045000	11279642		Online			+2	Rms3	RMS Speaker Node
- GRID FX Sub 3	MID-Sub	002230991300	11279544		Online			+2	Rms3	RMS Speaker Node
- Stage Monitor 1	UM-1P	025F0D000700	00000000		Online			+2	Rms3	RMS Speaker Node
- Stage Monitor 2	UM-1P	024A5E000700	00000000		Online			+2	Rms3	RMS Speaker Node
- Stage Monitor 3	UM-1P	024191000700	00000000		Online			+2	Rms3	RMS Speaker Node
- Stage Monitor 4	UM-1P	02C325F50C00	12345668		Online			+2	Rms3	RMS Speaker Node
- Surround 1	IJM-1P	001672777700	03429834		Online			+2	Rms3	RMS Speaker Node

2. Click in the **Loudspeaker Product** field and choose the model from the menu.



Editing the Loudspeaker ID parameters for Windows (left) and Mac (right)

3. Enter the loudspeaker's serial number in the **Serial Number** field.
4. Click **OK** to save the changes to this loudspeaker.

NAMING AN RMS-EQUIPPED PRODUCT ON THE NETWORK

To rename an RMS-equipped product found on the network:

1. Double-click the product in the **Device Name** column you wish to rename. The device name can contain up to 18 characters.
2. Press **Enter** to save the new name.

This device name is saved to the RMS Module that remains with the product, and is used whenever it is reconnected and discovered on the network.

CREATING LOUDSPEAKER PAGES

The **Page Configuration** tab lets you create pages of loudspeakers that you want to observe together.

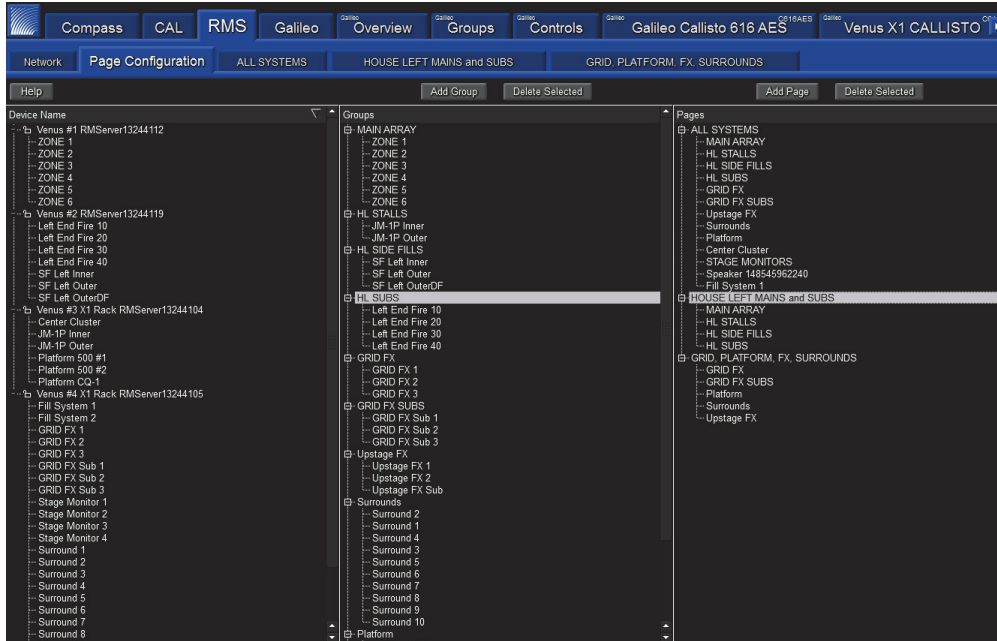


Figure 1: Page Configuration page with loudspeakers and MPS-488HPs assigned to groups and pages

To create and populate a page with loudspeakers:

1. On the **Page Configuration** page of the **RMS** tab, click **Add Page**. A new tab appears to the right of **Page Configuration** for this page. Figure 1 shows the following pages:

ALL SYSTEMS

HOUSE LEFT MAINS and SUBS

GRID, PLATFORM, FX, SURROUNDS

2. Drag loudspeakers from the **Loudspeakers** column and drop them on the desired page in the **Pages** column. A rectangular magenta outline appears when the cursor hovers over a page.

CREATING LOUDSPEAKER GROUPS

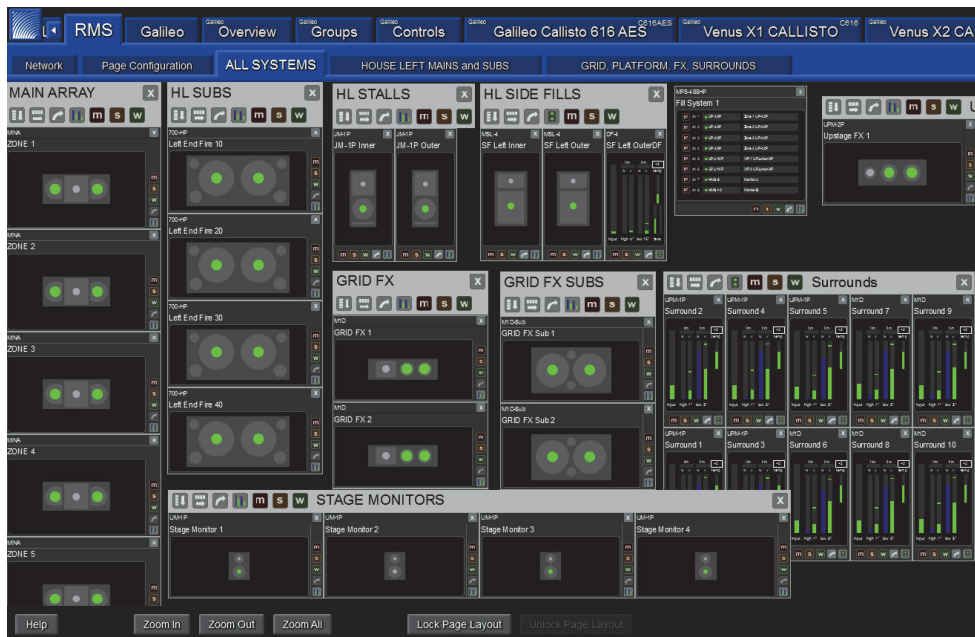
It can be convenient to visually monitor a group of loudspeakers on one page.

To create a loudspeaker Group:

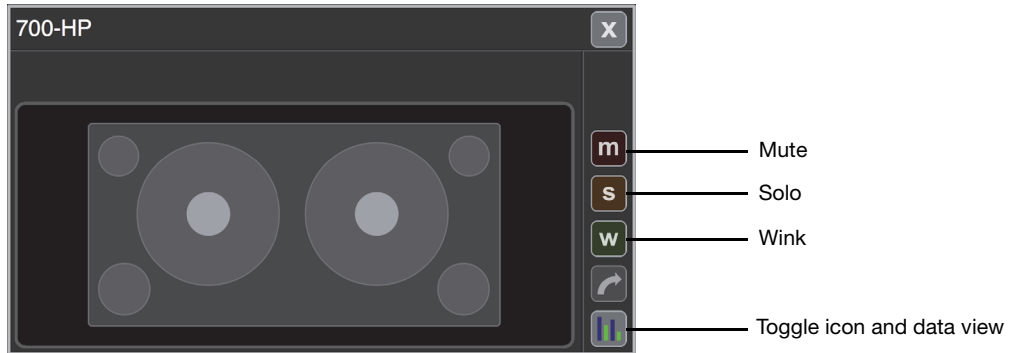
1. Click **Add Group** from the **RMS** tab's **Page Configuration** page.
2. Drag loudspeakers from the **Loudspeakers** column and drop them on the desired group in the **Groups** column.
3. Drag groups from the **Groups** column and drop them on the desired page in the **Pages** column. A box with a magenta outline appears when the cursor hovers over a page. Groups and individual loudspeakers can be freely mixed on the same page.

MONITORING LOUDSPEAKER DATA

1. Click a page tab to display the desired loudspeaker data.



2. Click the button in the bottom-right corner of each loudspeaker display to toggle it between icon and data view.



3. Hover the cursor over the center of a loudspeaker to display its most important parameters.
4. On the right side of each display, click the **M** and **S** buttons to toggle the mute and solo status, respectively.
5. Click the **W** button to wink the loudspeaker.



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