



Integration Note

Manufacturer:	Niles
Model Number(s):	MRC-6430
Minimum Core Module Versions:	ELAN version 7.1 ELAN Control 8.0 required for Streaming Services from MRC
Comments:	
Document Revision Date:	12/6/16

OVERVIEW AND SUPPORTED FEATURES

THE FOLLOWING FEATURES ARE SUPPORTED:

Traditional Whole-House Audio and Do Not Disturb: The Niles MRC6430 has support for 6 sources Plus Paging. It has 6 outputs; 4 with pre-amp out and amplified speaker connections, and 2 pre-amp out only zones. Zones enrolled in Whole-House Audio can also be placed in Do Not Disturb Mode.

Paging: The Niles MRC6430 Supports paging.

IR Routing: The MRC6430 has 6 IR Outputs. They are added as available IR outputs in the configurator when the device is added to the ELAN system.

Multiple Controllers: Two Niles MRC6430 units can be controlled on the same network. Stacked MRC6430 Controllers are not supported and each is considered its own independent Zone Controller.

Settings Pages: When the Niles MRC6430 is added into the Configurator, the **ELAN** system will auto-populate the settings pages for the zones.

Ethernet Control: Reliable, 2-way communication is established between the Controller and the MRC6430.

Streaming Audio Sources: As of ELAN Control 8.0, The built-in streaming audio services are available for use on the ELAN Control Platform. Note that the streaming services must be setup in the Niles unit prior to adding to ELAN.

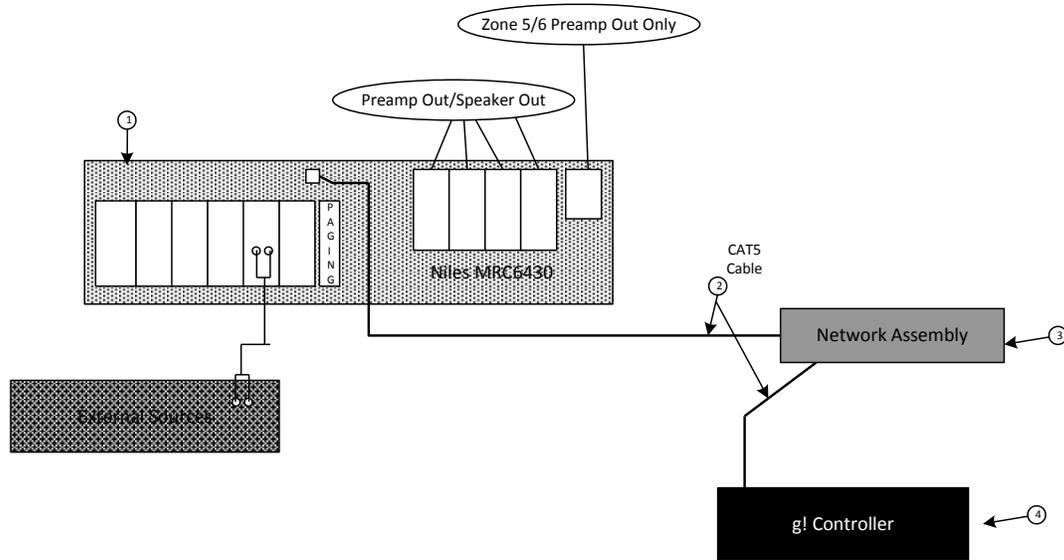
Any feature not specifically noted as “supported” is not supported.

INSTALLATION OVERVIEW

INSTALL SYSTEM:

1. During the rough-in phase, install speaker wire for the speakers in each zone.
2. Also during the rough-in phase, run a Cat5 wire from the location of the Zone Controller to the Managed Switch, and a Cat5 from the Managed Switch location to the Network Assembly as needed.
3. Mount the speakers and keypads in each zone, and install the Zone Controller and the sources.
4. Setup the Niles.
5. Configure Streaming Services through the stand-alone Niles interface.
6. Connect the **ELAN** system to the Niles system electrically. See the Wiring Diagrams for more information.
7. Configure the **ELAN** system for the Niles and confirm communication between it and the **ELAN Controller**. See **ELAN Configuration** details below.
8. Test the system by changing sources in a zone to confirm the correct source plays, and by testing the **ELAN** interface transport controls.

CONNECTION DIAGRAM



BILL OF MATERIALS

#	Device	Manufacturer	Part Number	Protocol	Connector Type	Notes
1	Niles MRC6430	Niles	MRC6430	TCP/IP	RJ45 Female	
2	Cat5 Cable Assy.	Installer	N/A	TCP/IP	RJ-45 Male X RJ-45 Male	Must connect all 8 wires
3	Network Assembly	ELAN	NWA 18	TCP/IP	RJ-45 Female	or router/switch
4	g! Controller	ELAN	Various (Ex. gSC10)	TCP/IP	RJ45 Female	

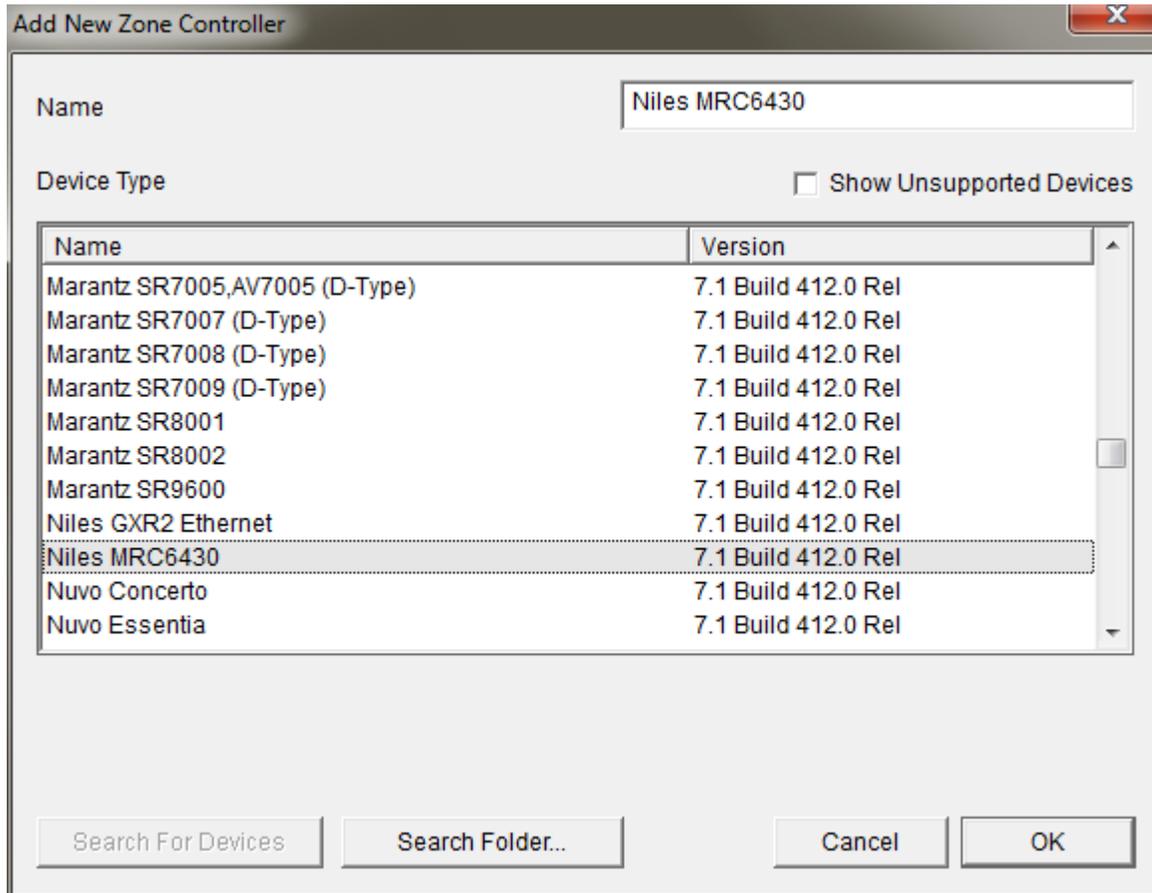
NOTE: If you plan to use the Niles Streaming Services available on the chassis, the services must be set up on the Niles box prior to integrating it with the ELAN Control Platform. Please see the Niles documentation for information on configuring the Streaming Services.

ELAN CONFIGURATION

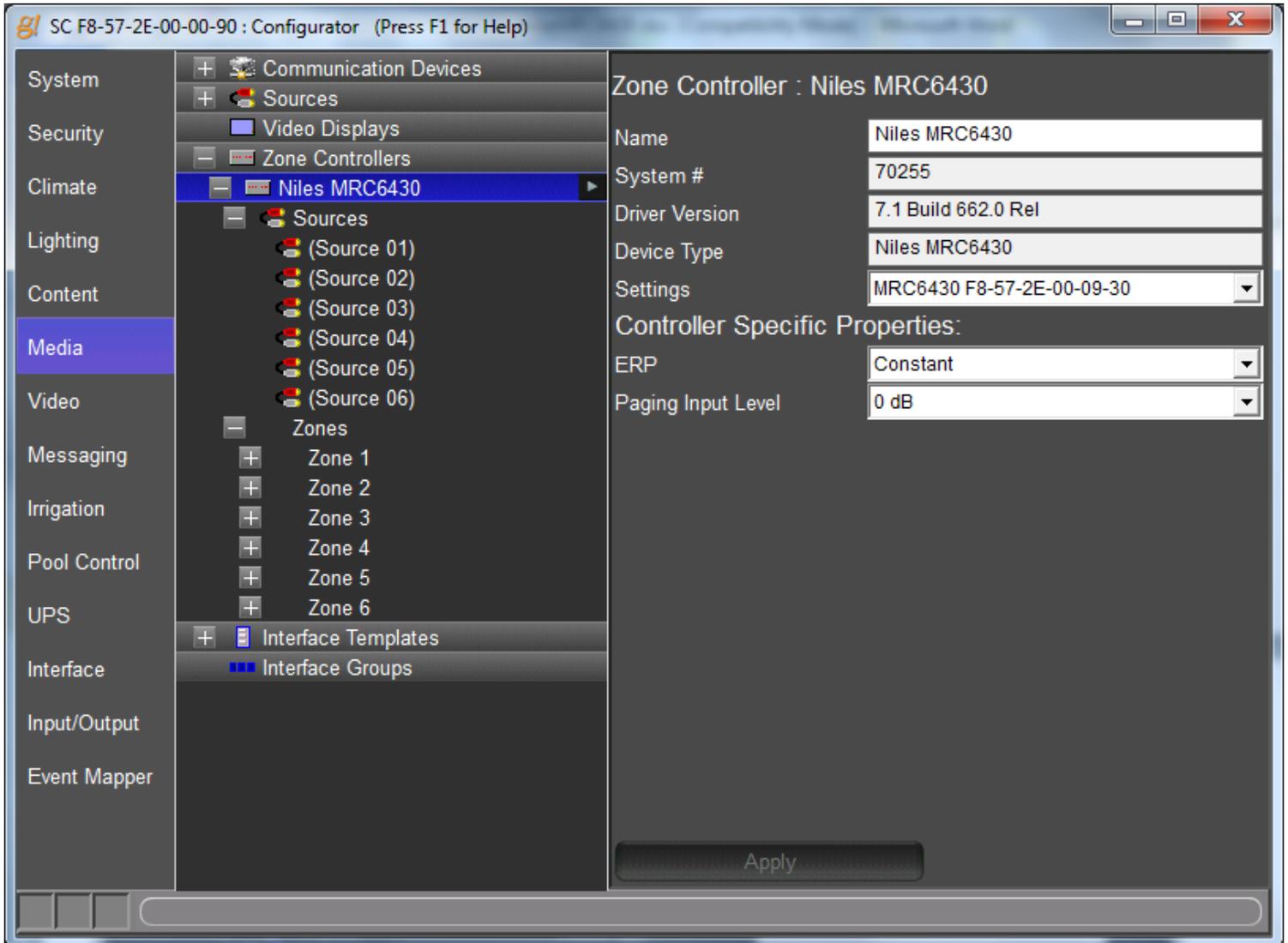
Adding the chassis to **ELAN** Configurator:

On the Media tab in the Configurator, right click and add a new Audio Zone Controller. Select "Niles MRC6430" from the list. (A Communication Device is not required and should not be added)

1. Add the MRC6430 under Zone Controllers

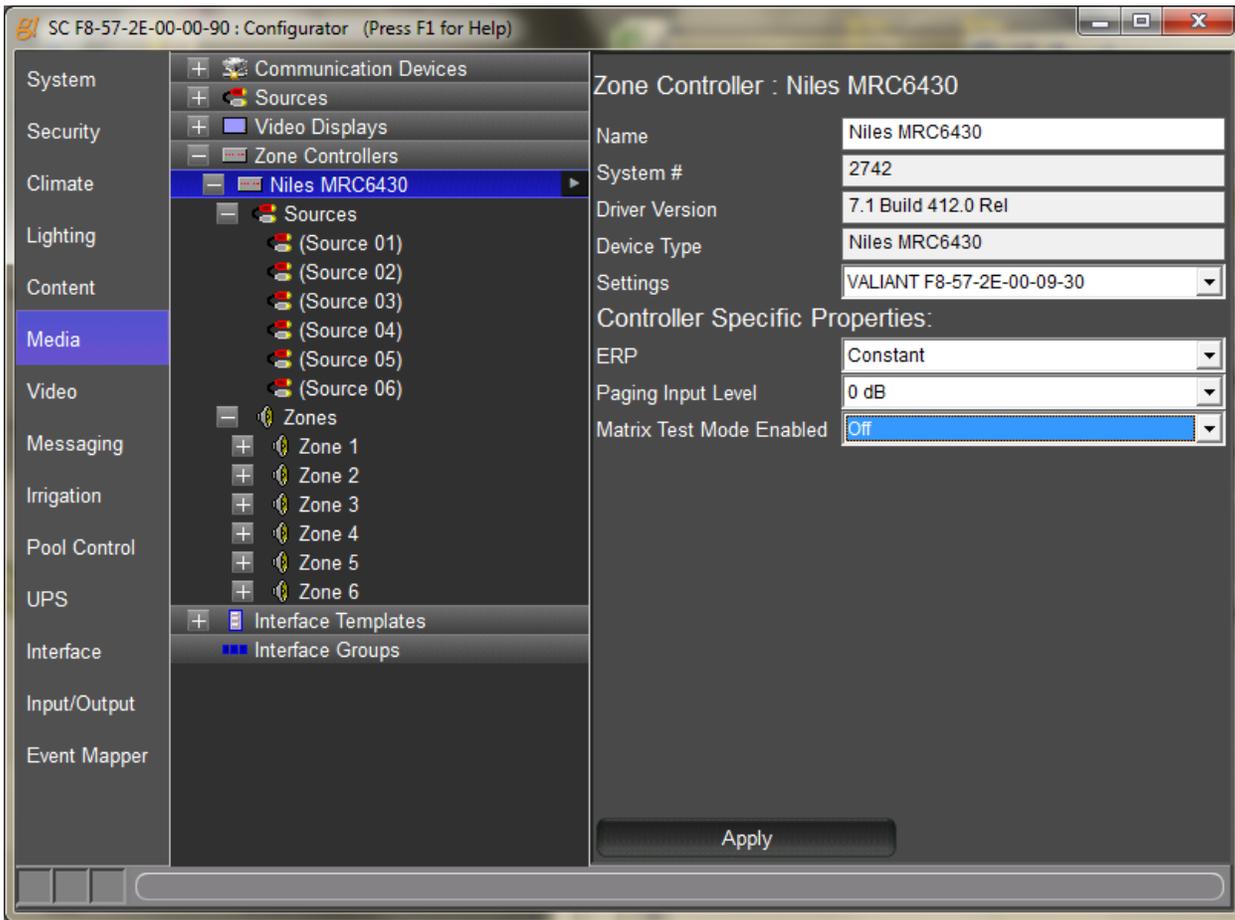


2. Select your MRC6430 Unit:

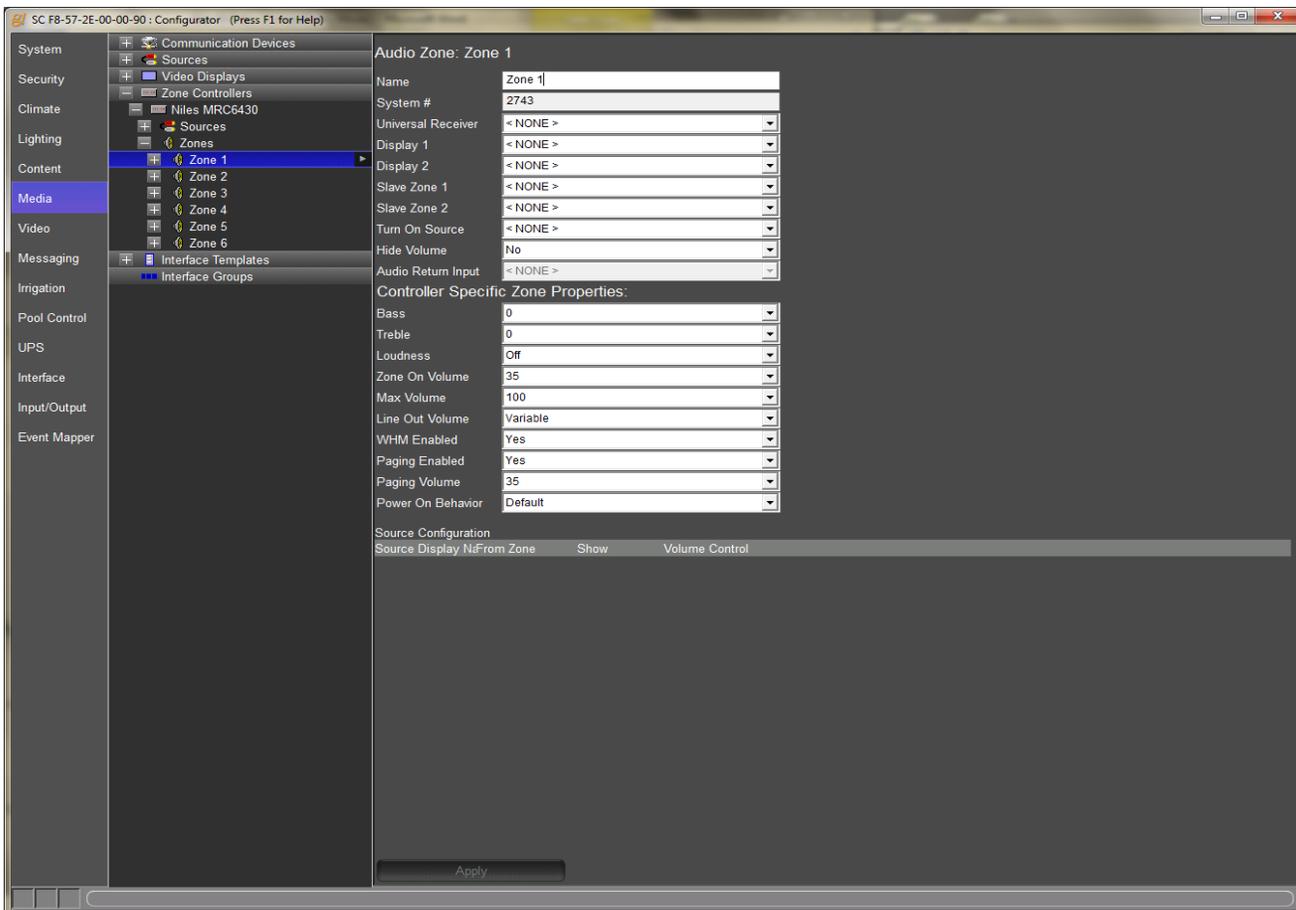


3. Configure the controller specific Properties:

- a. ERP: Constant Or Audio Sense. See MRC6430 for full details on ERP Modes
- b. Paging Input Level: Set the Paging Input Level from -6 to 6



4. Configure Zone Settings



Quick Reference: MRC6430 Zone Settings	
Bass	Bass Adjust form -12 to 12
Treble	Treble Adjust from -12 to 12.
Loudness	Loudness Adjust On/Off
Zone On Volume	Default Zone On Volume
Max Volume	The maximum volume allowed for the zoneAn "X" in this column designates that the zone participates in the Whole House Music functionality of the zone controller.
Line out Volume	Set to Fixed or Variable for Line outs
WHM Enabled	Set to "Yes" to enroll zone in WHM
Paging Enabled	Set to Yes to enable Paging for this Zone
Paging Volume	Set the Paging volume for this Zone.
Power on Behavior	Set to Default to have defaults defined above loaded at power on, or to Last Set to have the device power on to its settings at shutdown

ELAN CONFIGURATION DETAILS

The following table provides settings used in the **ELAN** Configurator. Please refer to the *ELAN Configurator Reference Guide* for more details.

In the table below:

- “<Select>” Select the appropriate item from the list (or drop-down) in the Configurator.
- “<User Defined>”, etc. Type in the desired name for the item.

Devices	Variable Name	Setting	Comments
Communication Device		NONE REQUIRED	
Audio Zone Controllers	Name	<User Defined> (Default: MRC6430)	
	Device Type	Niles MRC6430	
	Settings	<Select> The MRC6430 Unit being addressed	
Controller Specific Properties	ERP	<Select>[Constant Audio Sense]	See MRC6430 Documentation for full details on ERP Modes
	Paging Input Level	<Select>[-3 .. 3]	
Zones	Edit Zone setting such as Bass, Treble, Loudness, etc. See Reference Guide for full details on zone configuration.		

COMMON MISTAKES

1. De-integrating the device: When removing a MRC from ELAN, the unit must be connected and powered on when deleting the device from the configurator. Failure to have the device connected and running when de-integrating from ELAN will result in the MRC unit failing to return to stand-alone mode. To correct this, read and delete the MRC to ELAN while the unit is connected and powered on.
2. Streaming Services not available: The Streaming Services must be configured while the MRC is in stand-alone mode prior to ELAN integration. If this step was missed, remove the MRC from Configurator and log in with the Niles Connect utility and configure Streaming according to the Niles documentation.