

a sound relationship

Russound

SMZ

RTI Driver User Guide

Driver developed by



Introduction

This driver has been designed to provide two-way control of SMZ products (SMZ8, SMZ16-PRE), via Ethernet.

SMZ Configuration

It is recommended that all Russound devices are updated to the latest available firmware version prior to integration with this driver. All devices must be configured and working.

As it is necessary to define the IP addresses of the Russound devices in Integration Designer Apex, it is recommended that they are configured with static addresses to avoid the possibility of communication failure due to DHCP allocated addresses changing. These can be configured via the **Networking** tab on the device's configuration page in Russound's WebConfig.

Driver Installation & Configuration

Open your RTI Integration Designer Apex system file. Add Russound SMZ driver to the Workspace Global > Drivers.

Russound MCA	
Driver Configuration	System Settings
Driver Utilities...	Controller Model
Driver Properties	Model
Driver Events	Number of Zones
Driver Info	Controller Configuration
	IP Address
	Zone Configuration
	Zone 1 name
	Zone 2 name
	Zone 3 name
	Zone 4 name
	Zone 5 name
	Zone 6 name
	Zone 7 name
	Zone 8 name
	Source Configuration
	Source 1 name
	Source 2 name
	Source 3 name
	Source 4 name
	Source 5 name
	Source 6 name
	Source 7 name
	Source 8 name

Figure 1: Driver Properties

The driver features several configuration properties that must first be completed.

Setting	Description
System Settings	Processor – The XP-series processor running the driver.
Controller Model	Model – Select a device type from the drop down. Number of Zones – The total number of zones to be controlled is 48
Controller Configuration	IP Address - Enter the IP address of the device.
Zone Configuration	Zone #x name – Enter a name to identify the zone. This then names function parameters and variable to simplify programming
Source Configuration	Source #x name – Enter a name to identify the source. This then names function parameters and variable to simplify programming

Table 1: Driver Properties

Driver Commands

The driver features several commands used for control. Common functions are tagged with support for Apex auto-programming

Command	Description
Zone Selection Commands	
Select Zone	Selects a zone to control – this is provided for legacy systems and should only be used with ID 9
Zone Control Commands	
Set Bass	Sets the Bass for given zone. Can be increment, decrement or set the value between -10 and 10.
Set Treble	Sets the Treble for given zone. Can be increment, decrement or set the value between -10 and 10.
Set Balance	Sets the left/right Balance for given zone. Can be increment, decrement or set the value between -10 and 10.
Set Loudness	Sets the Loudness for given zone. Can be On, Off or Toggle.
Set Turn On Volume	Sets the Turn On Volume for given zone. Can be set to a value between 0 and 100.
Set Party Mode	Toggles the Party Mode for the given zone. Can be Off, On or Toggle. Please note that this feature is not present in the demo UI.
Set Do Not Disturb	Sets the Do Not Disturb status for the given zone. Can be Off, On or Toggle. Please note that this feature is not present in the demo UI.
Power Commands	

Toggle Player On/Off	Turns the zone on or off. Can be On, Off or Toggle.
Toggle All Players On/Off	Turns all the zone on or off. Can be On, Off or Toggle. Must be directed to a specific zone to issue the command.
Volume Commands	
Set Volume	Set the zone volume. Can be increment, decrement or a value between 0 and 100.
Mute	Mute the zone. Can be On, Off or Toggle.
Favorite Commands	
Refresh	Manually refresh favorites. (This should not be required in most cases as favorites are gathered on startup and updated dynamically when changed via the app).
Select Favorite	Select favorite for Zone.

Table 2: Driver Commands

Driver Variables

The driver features several variables, providing feedback from the SMZ system.

Variable	Description
UI Visibility	
Settings Menu Visible	Indicates whether the settings menu is visible.
Current Zone Settings – these are provided for use with the Select Zone function and are for legacy ID9 installations	
Current Source	The current source number for the selected zone.
Current Zone Name	The zone name for the selected zone.
Current Source Name	The current source name for the selected source.
Volume	The current volume value for the selected zone.
Bass	The current bass value for the selected zone.
Treble	The current treble value for the selected zone.
Balance	The left/right balance for the selected zone.
Loudness	The current loudness setting for the selected zone.
Turn On Volume	The turn on volume value for the selected zone.
Do Not Disturb	The do not disturb value for the selected zone.

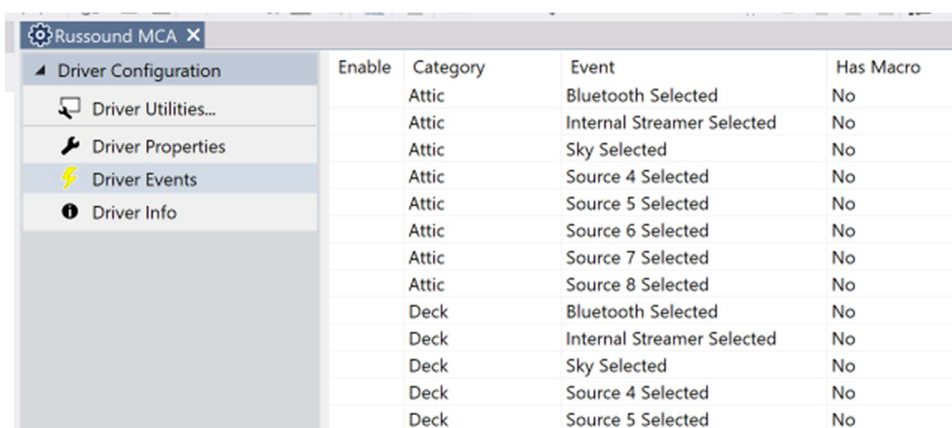
Party Mode	The party mode status for the selected zone.
Power Status	The power status for the selected zone.
Mute	The current mute value for the player.
Current Source	The source number of the current source.
Zone Settings	
Source	The current source number for the zone.
Zone Name	The zone name for the zone.
Source Name	The current source name for the source.
Volume	The current volume value for the zone.
Bass	The current bass value for the zone.
Treble	The current treble value for the zone.
Balance	The left/right balance for the zone.
Loudness	The current loudness setting for the zone.
Turn On Volume	The turn on volume value for the zone.
Do Not Disturb	The do not disturb value for the zone.
Party Mode	The party mode status for the zone.
Power Status	The power status for the zone.
Mute	The current mute value for the player.
Current Source	The source number of the source.
Favorite	
Favorite List	Item list data source for favorites.

Table 3: Driver Variables

Driver Events

The driver features the following events, providing feedback from the SMZ system.

Event	Description
Switching	
Source Selected	When a source is changed in a zone the corresponding event fires. This allows the RTI panel to change page to reflect the correct source selected.



Enable	Category	Event	Has Macro
	Attic	Bluetooth Selected	No
	Attic	Internal Streamer Selected	No
	Attic	Sky Selected	No
	Attic	Source 4 Selected	No
	Attic	Source 5 Selected	No
	Attic	Source 6 Selected	No
	Attic	Source 7 Selected	No
	Attic	Source 8 Selected	No
	Deck	Bluetooth Selected	No
	Deck	Internal Streamer Selected	No
	Deck	Sky Selected	No
	Deck	Source 4 Selected	No
	Deck	Source 5 Selected	No

Troubleshooting

In order to simplify troubleshooting, verify that the Russound system works as desired when using the Russound app. Any issues found in the system can then be isolated to the RTI programming or configuration.

A thorough understanding of RTI's Room Proxy feature will simplify the configuration, especially for larger systems.

Selected Zone / Auto-programming

The Selected Zone function should only be used in ID9 designs where there is a single page design (and Selected Zone cannot be used in System Macros, only in remote macros)
With Apex (ID10), the pages are auto-programmed, and Selected Zone is not required since all programming uses discrete zone commands and variables