



up to and including version 2.0.1

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WARNING: THE MAIN POWER PLUG MUST REMAIN READILY OPERABLE.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, GROUNDING OF THE CENTER PIN OF THIS PLUG MUST BE MAINTAINED.

**WARNING**: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPRATUS TO RAIN OR MOISTURE.

**WARNING**: TO PREVENT INJURY, THIS APPARATUS MUST BE SECURELY ATTACHED TO THE FLOOR/WALL/RACK IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS.

This product is AC only.

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## Important Safety Instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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## chapter 1 Introduction

## Welcome to RVONedit

RVONedit is a Windows-based **GUI** (Graphical User Interface) application for configuring and displaying RVON (VoIP) devices connected to your Matrix system. RVONedit is to the VoIP products as AZedit is to ADAM, ADAM CS, Cronus, and Zeus. The RVON devices included are:

- RVON-8
- RVON-I/O
- RVON-Keypanel
- RVON-C
- RVON-16

To fully use the RVONedit application, you must have the following minimum version installed:

FIRMWARE	VERSION
RVON-8	V 2.0.0 or later
RVON-Keypanel	V 2.0.0 or later
RVON-I/O	V 2.0.0 or later
RVON-C	V 2.0.0 or later
RVON-16	V 2.1.3 or later

**NOTE:** RVONedit can download firmware to older versions, but requires these versions in order to automatically detect the devices and to view or modify the device configurations. For more information, see "How to Update Older Version RVON Devices Using RVONedit" on page 88.

#### 12 Introduction

## Getting Started with RVONedit

Once you have updated the firmware for each RVON device through AZedit, serially, or by using Telnet, you can start using RVONedit by itself.

NOTE: When RVONedit is setup, you are able to download firmware upgrades from the RVONedit Window.

## Step 1

Using the RVONedit installation wizard, install RVONedit on the PC connected to the Intercom System (ADAM, ADAM CS, Cronus, or Zeus).

## Step 2

Add Devices to the RVONedit application. This can be done manually or automatically. For more information, "How to Add Devices to RVONedit" on page 60.

## Step 3

Using the Device Configuration section of the RVONedit Window configure your RVON device.

## **RVONedit Field Types**



## FIGURE 1. RVONedit Field Types

## **CHAPTER 2**

# Application Window Descriptions

## **RVONedit Main Application Window**

The **Main Application** window, shown in Figure 2, is split into three (3) areas which are described in detail on the following pages. RVONedit version 2.0.0 and higher is now able to open more than one (1) window at a time. You can now view or edit multiple devices at the same time. For more information, see "How to Open Multiple Windows in RVONedit" on page 59.

N VONedit							_ 8 ×
Eile RVON Changes Edit View Window Help							
😂 🛍 🗗 🔛 👿 🖉 🔺 🗶 💹 💹 🕰 😂 🔽 🗮	🖸 😪 🗰 🕪 🥔 😡 🚺	<b>2</b>					
slot 1	Device Information						
192.168.1.27							
[192.168.1.108]	Configuration				Status		
[192.168.1.223]	Description:				Туре	e: RVON-IO - Local Mode	
By Device Type	IP Address: 192.16	8.1.107 🗌 Dis	able Auto-Negotiation		Statu	s: CONNECTED: ARWTD	
RVON-8	Netmask: 255.25	5.255.0	- Full Duplex 📧 100 Mbp:	s	Session	s: 15/16 Available	
	Gateway: 192,16	8.1.1 C F	Half Duplex C 10 Mbps		Channel	s: 00000000	
	Version: 0D0M	RVON-IO Card, Version 2.1	6 Oct 28 2008	-		s: 000000000	
	Version, Japan	KVON-10 Card, Version 2.1	.0, 000 20 2000		Keypanei	. 0000000	
				<u> </u>			
192.168.1.26	Pass-Through / GPIO Inform	nation		•			
192.168.1.27	Serial To Ethernet		Ethernet To Serial			GPIO	
slot 1	Tx IP Address:	0.0.0.0	Rx IP Address	: 0.0.0.0		Mode: 1 Keypan	el 🔻
RVON Keypanel	Destination Port:	1	Destination Port			IP Address: 0.0.0.0	
[192.168.0.61]	Baud Rate:		Unexpected Bytes	-		Keypanel: 1	
KP32 @161		_		· ·			
[192.168.1.162]	Bytes Transferred:	0	Bytes Transferred	1:   O		Inputs:	00000
[192.168.1.163]	Bytes Lost:	0	Bytes Lost	:: 0		Outputs: 0000	99000
[192.168.1.223]	Errors:	0	Errors	;: 0			
E RVON-IO							
192.168.0.26							
192.168.0.60							
[192.168.1.106]							
192.168.210.106	Channel Configuration	Channel 1	Channel 2	Channel 5	Channel 7	Channel 8	<u> </u>
[192.168.1.107]	Channel Description						
RVON-C	Destination Type	RVON-8	RVON-8	RVON	RVON	RVON-8	
192.168.0.41	Destination IP Address	192.168.1.28	-	-	-	-	
192.168.0.31	Destination Description		-1 1-	-			
[192.168.1.194]	Destination Channel Destination Channel Description	Channel 7	Channel 2	Channel 5	Channel 7	Channel 2	
[192.168.1.193]	Coding Algorithm	G.723.1 (6.3k)	G.723.1 (6.3k)	G.723.1 (	G.723.1 (	G.723.1 (6.3k)	
192.168.1.191	Audio / Packet	60 ms	60 ms	60 ms	60 ms	60 ms	
RVON-16	VAD State						
192.168.0.20	VAD Threshold	-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60 dBm	
[192.168.0.52]	Channel Input Gain Channel Output Gain	0 dB 0 dB	0 dB 0 dB	0 dB 0 dB	0 dB 0 dB	0 dB 0 dB	
[192.168.1.29]	Keypanel Polling ID	-	-			-	
[192.168.1.32]	Keypanel Polling Baud Rate	9600	9600	9600	9600	9600	
192.168.1.23	Channel Status						
	VOIP Status			9			
	Network Status Errors			5			
	Invalid Headers		-	· ·		-	
[192.168.1.108]	Toyalid M0C 0ddress			· .	.		
Fox Holp, proce F1							102 169 1 107

FIGURE 2. RVONedit Main Application Window

#### 14 Application Window Descriptions

## Device Catalog

The **Device Catalog**, shown in Figure 3, is used to view the RVON devices you have selected and connected to your Intercom System.

**NOTE:** You can also double-click *By Device Type* or *All Devices* to open and close the catalog tree.

- When displaying All Devices, RVONedit, by default, displays the RVON devices in order of how the devices were added to the application.
- When displaying the RVON devices *by Device Types*, color-coded squares appear to distinguish between the different RVON devices.
  - RVON-8 RVON-Keypanel RVON-I/O RVON-C RVON-16
- **NOTE:** Initially, when RVONedit is installed, the device catalog is empty. Remember to update your RVON firmware to the minimum requirements (see page 11) before you add devices to RVONedit.

There are two (2) ways to view these devices: All Devices or by Device Type.



FIGURE 3. Device Catalog



The Device Catalog uses expandable/collapsible trees. By clicking the + symbol, you can expand a catalog, or click - to collapse the catalog.

Once you have finished adding the RVON devices to the catalog, you can now display its configuration and status section in the RVONedit window.

## Device Configuration and Status Field

The **Device Configuration and Status** section, shown in Figure 5, is used to enter information about the selected device. Device Information is grouped into four (4) sections:

Device Information and Status Pass-Through and/or GPIO Support Information SNMP Information Authentication Information

RVONedit								_ 8 ×
Elle BYON Changes Edit Yew Window Help								
🖆 🔮 🛃 🔜 🔣 🗱 🖉 🖉 🖉 😫 😂 😂	b 🖻 💌 🔠 🖸	+ 🔸 🛷 😢 🚺						
- slot 1	-	Device Information						^
192.168.1.27								
- [192.168.1.108]		Configuration		10	2 2	atus	12	
[192.168.1.223]		Description:				Type	RVON-IO - Local Mode	
By Device Type		IP Address: 192.168.1	.107 🗆 🗆 🛛	isable Auto-Negotiation		Status	CONNECTED: ARWTD	
RVON-8		Netmask: 255.255.2	\$5.0	Full Duplex 🙃 100 Mbps		Sessions	15/16 Available	
192.168.0.21		Gateway: 192.168.1	.1 0	Half Duplex C 10 Mbps		Channels	00000000	
		Version: ADAM RVC		1.6. 0+ 20 2000			00000000	
		Terson: JADAPTICIC	meto caro, version z	1.16, 00. 28 2000		veyballes	00000000	
192.168.0.22								
192.168.1.21								
192.168.1.26	L L	Pass-Through / GP10 Informabi	on					
		Serial To Ethernet		Ethernet To Serial			GP10	
slot 1		Tx IP Address: 0.0	0.0	Rx IP Address:	0.0.0.0		Mode: 1 Key	panel 💌
RVON Keypanel		Destination Port: 1		Destination Port:	0		IP Address: 0.0.0.	
[192.168.0.61]			_					
- KP32 @161		Baud Rate: 960	• •	Unexpected Bytes:			Keypanel: 1	-
[192.168.1.162]		Bytes Transferred: 0		Bytes Transferred:	0		Inputs: 0 0 0	000000
[192.168.1.163]		Bytes Lost: 0		Bytes Lost:	0		Outputs: 000	000000
[192.168.1.223]		Errors: 0		Errors:	0			
RYON-IO								
192.168.0.26								
192.168.0.60								ЪČ
[192.168.1.106]	<u> </u>							2
192.168.210.106	100	Use the I	Device C	onfiguration	and	Stat	Channel 8	
× [192.168.1.107]	<u>us</u>	section t	o configu	ire or display	y			-
R RVON-C		configura	ation set	tings.	-		RVON-8	-
192.168.0.41		De						
192.168.0.31		The GPIC	) section	(outlined in	red	) on	IV	
[192.168.1.194]	Dert	nation displays	when RV	ON-Keypane	liet	he	Channel 2	-
[192.168.1.193]	Des	selected	dovico	on Reypane	1 13 1	ne	G.723.1 (6.3k)	-
192.168.1.191		Selected	uevice.				60 ms	-
RVON-16		VAD State						
192.168.0.20		VAD Threshold	-60 dBm		_	60 dBm	-60 dBm	
[192.168.0.52]		Channel Input Gain Channel Output Gain	0 d8 0 d8		0 d8	0 d8 0 d8	0 d8 0 d8	
[192.168.1.29]		Keypanel Poling ID	-	- U GB	- U de		-	-
[192.168.1.32]		Keypanel Poling Baud Rate	9600	9600	9600	9600	9600	
192.168.1.23		nnel Status						
[192.168.1.25]	Industry	P Status						
192.168.1.37	Net	work Status						
		Invalid Headers	-					
[192.168.1.108]	-	Invalid M&C Address						<u>-</u>
For Help, press F1								192.168.1.107

## FIGURE 4. Device Configuration and Status Section

## Device Information and Status Section

The **Device Information and Status** section, shown in Figure 5, is used to configure and display your RVON device configuration.

	1
t	l
	1

**NOTE:** Using the Expand/Collapse button, you can expand or collapse each section of the Device Configuration and Status section. When collapsed, only the section heading appears.

Description:	slot 9		Type:	RVON-16
IP Address:	192.168.1.29	Disable Auto-Negotiation	Status:	CONNECTED: ARWTD
Netmask:	255.255.255.0	C Full Duplex C 100 Mbps	Sessions:	15/16 Available
Gateway:	192.168.210.1	🖲 Half Duplex 💿 10 Mbps	Channels:	02825628 02825628
Version:	ADAM RVON-16 Card, Ve	ersion 2.1.3, Jan 29 2008	Keypanels:	000000000000000000000000000000000000000

FIGURE 5. Device Information and Status window

**NOTE:** All of the following fields, except Description, require *Admin Privileges* to modify their contents. Changing the IP Address, Netmask, or Gateway causes the device to reboot when the changes are sent.

## **Description Field**

The **Description** field is used to enter a text description of the device. This description can be displayed instead of the IP Address in the Device Catalog, see "Use Device Descriptions in the Device Catalog" on page 70.

This field can contain up to 63 characters.

## **IP Address Field**

The IP Address field is used to enter the IP Address for the selected RVON device.

## Netmask Field

The **Netmask** field is used to enter the Network Mask Address<sup>1</sup> to which the device is connected.

## **Gateway Field**

The **Gateway**<sup>2</sup> field is used to enter the default Gateway Address, if applicable, of the network to which the RVON device is connected.

<sup>1.</sup> A 32-bit mask which shows how an Internet Address is to be divided into network, subnet and host parts.

<sup>2.</sup> The computer or device onto which the first hop needs to go to get out of your network and onto another network or the Internet. The gateway, as it relates to TCP/IP, is tried when a resource is not found on the local network

## **RVONedit Configuration Software**

## Version Field

The Version field displays the current firmware version of the RVON device.

## **Disable Auto-Negotiation Check Box**

The **Disables Auto-Negotiation** check box is used to disable the auto-negotiate feature and activate the Mode and Speed radio buttons.

Available selections for this field are:

*Full Duplex* - data moves both directions simultaneously *Half Duplex* - data moves in one direction at a time 100 Mbps 10 Mbps

## **Type Field**

The Type field displays the type of RVON device being configured and what mode it is running in.

## **Status Field**

The Status field displays the current status of the RVON device and the current access rights of the user.

## **Sessions Field**

The **Sessions** field displays the number of RVONedit sessions the device supports and how many are available (for example, 15/16 Available).

## **Channels Field**

The Channels field displays the VoIP connection states for each channel.

green—connected red—disconnected gray—not configured

## **Keypanels Field**

The Keypanels field displays the keypanel connection states for each channel

green-connected

red-disconnected

gray—not configured

## Pass-Through and/or GPIO Information Section

The Pass-Through and/or GPIO Information section, shown in Figure 6, is used to configure the pass-through GPIO settings for an RVON device (if applicable).

+

NOTE:	Using	the Exp	oand/C	ollapse	buttor	-	<b>Ι</b> , yoι
	<i>a</i>		** **				

u can collapse or expand each section of the Device Configuration and Status section. When collapsed, only the section heading appears

Pass-Through / GPIO Information					— <u>-</u>
Serial To Ethernet	Ethernet To Serial		GPIO		
T× IP Address: 0.0.0.0	R× IP Address:	0.0.0.0	Mode:	1 Keypanel 💌	
Destination Port: 1	Destination Port:	0	IP Address:	0.0.0.0	
Baud Rate: 9600	Unexpected Bytes:	0	Keypanel:	1	
Bytes Transferred: 0	Bytes Transferred:	0	Inputs:	00000000	
Bytes Lost: 0	Bytes Lost:	0	Outputs:	00000000	
Errors: 0	Errors:	0			

FIGURE 6. Pass Through and/or GPIO Information.

The Serial To Ethernet group box displays the serial data received on the serial connection and transferred to the Ethernet Address of the device to which the serial data is sent.

## **Tx IP Address Field**

The TX IP Address field is used to enter the IP Address of the device the serial data is sent.

## **Destination Port Drop Down Menu**

The Destination Port drop down menu is used to select which port is assigned as the destination port when connecting to an RVON-16.

Available selections for this field are *1* and *2*.

NOTE: The RVON-16 provides two (2) virtual serial connections via an IP connection. Which, if used while trunking, may eliminate the need for multiple IP resources.

## **Baud Rate Drop Down Menu**

The **Baud Rate** drop down menu is used to select the baud rate of the serial connection.

Available selections for this field are:

9600 19200 38400

## **Bytes Transferred Field**

The Bytes Transferred field displays the number of bytes transferred from the serial connection to the Ethernet.

## **Bytes Lost Field**

The Bytes Lost field displays the number of bytes that could not be transferred.

## **Errors Field**

The **Errors** field displays the number of errors that occurred during transfer.

## **Ethernet To Serial Group Box**

The **Ethernet To Serial** group box displays the serial data received on the Ethernet connection and transferred to the serial connection.

## **Rx IP Address**

The **Rx IP Address** field displays the IP Address from which data was last received via Ethernet (this address should match the Tx IP Address).

## **Destination Port Field**

The Destination Port field displays which port is assigned as the destination port when connecting to an RVON-16.

**NOTE:** The RVON-16 provides two (2) virtual serial connections via an IP connection. Which, if used while trunking, may eliminate the need for multiple IP resources.

## **Unexpected Bytes Field**

The **Unexpected Bytes** field displays the number of unexpected bytes of data. Unexpected bytes is data that comes from any IP Address that is not the Tx IP Address.

**NOTE:** These bytes of data are considered invalid bytes and are not transmitted.

## **Bytes Transferred Field**

The Bytes Transferred field displays the number of bytes transferred to the serial port.

## **Bytes Lost Field**

The Bytes Lost field displays the number of bytes that could not be transferred.

## **Errors Field**

The **Errors** field displays the number of errors that occurred during the transfer.

## Mode Drop Down Menu

The Mode drop down menu is used to select the mode in which the GPIO are to be used.

When configuring the GPIO mode on the RVON-I/O, there are three (3) different mode options you may choose from:

Pass-Through Mode:	In pass-through mode, GPIO status is sent over Ethernet, therefore you must set the IP Address of the destination GPIO pass-through port.
1 Keypanel Mode:	In 1 keypanel mode, also referred to as single port mode, all GPIOs with a keypanel allow you to access/address the GPIO in UPL statements.
All Keypanel Mode:	In all keypanel mode, also referred to as multiple port mode, each keypanel is associated to its corresponding GPIO. For example, if keypanel 1 is connected to GPIO 1, it is associated with the corresponding GPIO port. When using All Keypanel Mode, an additional GPIO is available. This means each keypanel has four (4) GPIOs and then a GPIO associated with port 9.

**NOTE:** The extra port 9 is only available in ADAM intercom systems.

## **IP Address Field**

The **IP** Address field is used to enter the IP Address of the device with which GPIO states are transferred. This option is only valid when the GPIO mode is set to Pass-Through.

## **Keypanel Drop Down Menu**

The **Keypanel** drop down menu is used to select the device port/keypanel number with which all GPIOs are associated. This option is only valid when GPIO mode is set to All Keypanel Mode.

Available selections for this field are 1 through 8.

## **Inputs Field**

The Inputs field displays a summary of the current GPIO input states.

GPIO input states are as follows:

purple .....asserted

gray .....output not asserted

## **Outputs Field**

The **Outputs** field displays a summary of the current GPIO output states

GPIO output states are as follows:

purple .....asserted

gray .....output not asserted

## SNMP Information Section

The **SNMP Information** section, shown in Figure 7, is used to configure the **SNMP** (Simple Network Management Protocol) options for your RVON device, if applicable.

**NOTE:** This section is only shown if the device has SNMP support and the preference to Hide SNMP Configuration is not enabled (see "How to Show/Hide the SNMP Configuration Information" on page 71).

Name:	SDFVzd		Read-Only:	publiczd	
Location:	cvcf		Read-Write:	Intercomdf	
Contact:	cvhbsrethe		Traps:	trapdg	
	IP Address <no in="" items="" list=""></no>	Add		IP Address <no in="" items="" list=""></no>	Add

FIGURE 7. SNMP Information

+

Using the Expand/Collapse button , you can expand or collapse each section in the Device Configuration section. When collapsed, only the section heading appears.

There are four (4) areas within the SNMP Sections:

- System Information
- Community Strings
- Valid Hosts
- Trap Targets

The **System Information** group box is purely for documentation purposes. This information displays which device is configured and where it is physically located.

## Name Field

The Name field is used to enter the name of the RVON device in which SNMP is being configured.

This field can contain up to 100 characters.

## **Location Field**

The Location field is the physical location of the intercom system (for example, 3rd floor, Sacramento).

This field can contain up to 100 characters.

## **Contact Field**

The Contact field allows you to enter the name of the person responsible for the specified SNMP device.

This field can contain up to 100 characters.

## **Read-Only Field**

The Read-Only field allows you to set the password that provides read-only access via SNMP.

The default entry is *public*. Public allows everyone every access to Read the SNMP structure.

## **Read-Write Field**

The Read-Write field allows you to set the password that provides read-write access via SNMP.

## **Traps Field**

The Traps field is used to enter the trap identifier for SNMP event monitoring.

A *SNMP Trap* is a notification event issued by a managed device (the Intercom System) to the network management station when an event or error occurs. When an event or error occurs, a message is sent to the SNMP monitoring software with the Trap Community String description.

The Traps Community String specifies the community string included in all SNMP traps generated by the intercom Valid Hosts Group Box.

## **IP Address Field**

The **IP** Address field allows you to add up to five (5) IP Addresses of host machines that accept SNMP requests. You must enter a valid IP Address structure for the Add button to become active.

## **Use List of Valid Hosts? Check Box**

The Use list of valid hosts? check box is used to allow queries to the specified SNMP monitoring machines. You can specify the IP Address of these machines in the Valid Host IP Address list.

## Add Button

The Add button adds the IP Address of the SNMP monitoring machine to a list of approved IP Addresses.

## **Remove Button**

The **Remove** button removes the selected IP Address of the machine.

A list of up to five (5) targets the device sends SNMP traps to when they occur.

## **IP Address Field**

The **IP** Address field allows you to add up to five (5) IP Addresses of host machines that accept SNMP requests. You must enter a valid IP Address structure (xxx.xxx.xxx) for the Add button to become active.

## **Use List of Valid Hosts? Check Box**

The Use List of Valid Hosts? check box is used to allow queries to the specified SNMP monitoring machines. You can specify the IP Address of these machines in the Valid Host IP Address list.

## Add Button

The Add button adds the IP Address of the SNMP monitoring machine to a list of approved IP Addresses.

## **Remove Button**

The **Remove** button removes the highlighted IP Address of the machine.

## Authentication Information Section



## FIGURE 8. Authentication Information

The Authentication Information section, shown in Figure 8, is used to configure up to five (5) user profiles for the selected device. Each profile can be given different access rights or privileges: *Admin, Read, Write, Telnet, and Download*.

**NOTE:** Access rights, also called privileges, are an identified set of rights an individual user or group of users has to a particular resource. The RVON devices support an authentication table that can contain up to five (5) entries (each with a user name, password, and access rights).

Access Rights for the RVON devices are as follows:

- R Read (user can view status and configuration)
- W Write (user can modify most configurable elements)
- A Admin (user can modify advanced configuration elements)
- T Telnet (user can connect to the device via Telnet)
- D Download (user can download new firmware to the device)

CAUTION: It is possible to create an empty authentication table, disabling RVONedit, Telnet, and firmware downloads. If this occurs, do the following:

#### 24 Application Window Descriptions

- 1. Using Table 1 on page 24, turn **ON** the appropriate DIP switch.
- 2. Restart the device.
- 3. Once the device has been restarted, turn the DIP switch OFF.
- 4. Restart the **device**.

The following is a list of the DIP switch numbers for each RVON device type:

TABLE 1. DIP	Switch	for R	Resetting	Authentication	Table
	0 11 10011	101 1	cobotting	runiontication	14010

RVON-8	DIP Switch 5
RVON-Keypanel	DIP Switch 2
RVON-I/O	DIP Switch 3
RVON-C	DIP Switch 5
RVON-16	DIP Switch 5

**NOTE:** This section is only shown if the current access rights include *admin* and the preference option *Hide Authentication Table* is not enabled (see "How to Show/Hide the Authentication Table" on page 72).

User Name	Password	Admin	Read	Write	Telnet	Download	Add
elex	•••••		~	~	~	<b>v</b>	
admin	•••••	<b>V</b>	$\checkmark$	$\checkmark$	<b>~</b>	$\checkmark$	Remove
John Q	•••••			$\checkmark$			

FIGURE 9. Edit Authentication Information

+

**NOTE:** Using the Expand/Collapse button , you can expand or collapse each section in the Device Configuration section. When collapsed, only the section heading appears.

When creating the profiles, the following must be observed:

User Name —	Can be up to 40 characters long
Password —	Can be up to 40 characters long
Access Rights —	Select the access for the user you are creating.

## **Recommendations**:

- For security purposes, it is recommended you change the authentication table default user names and passwords so they are not easily accessible by anyone on your network.
- We also recommend you set an application default login user name and password when logging onto different devices. By enabling this feature, RVONedit remembers the user names and passwords to logon to each device, especially if you are planning to make different authentication tables for each device. By having RVONedit store the logon information, you eliminate having to logon to each device.

## Channel Configuration And Status Section

The **Channel Configuration and Status** section, shown in Figure 10, is used to configure or view the channels for each RVON device. Channel Configuration and Status is divided into five (5) sections:

Channel Configuration Channel Status VOIP Network Status Error





## **Channel Configuration**

Use the **Channel Configuration** section of the grid is used to configure channel settings for each applicable device channel. The channel configuration displays the following fields: Channel Description, Destination Type, Destination IP Address, Destination Description, Destination Channel, Destination Channel Description, Coding Algorithm, Audio/Packet, VAD State, VAD Threshold, Channel Input Gain, Channel Output Gain, Keypanel Polling ID, and Keypanel Polling Baud Rate.

#### 26 Application Window Descriptions

**NOTE:** If you are connected to a device with *Write* or *Admin* privileges, a context menu is available that allows you to *Tear Down Channels* (right-click in the left title column) or *Tear Down Individual Channels* (right-click the channel column header). For information on how to tear down channels, see "How to Tear Down a Channel" on page 83.

	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8
Channel Configuration								
Channel Description								
Destination Type	RVON-IO	RVON-8	RVON-8	RVON-IO	RVON-8	RVON-8	RVON-8	RVON-8
Destination IP Address	10.2.210.21	10.2.210.23	-	-	-	-	-	-
Destination Description	slot 1							
Destination Channel	Channel 1	Channel 2	Channel 1					
Destination Channel Description								
Coding Algorithm	G.711µ	G.711µ	G.711µ	G.711µ	G.711µ	G.711µ	G.711µ	G.711µ
Audio / Packet	10 ms	30 ms	30 ms	30 ms	30 ms	30 ms	30 ms	30 ms
VAD State	×	×	×	×	×	×	×	×
VAD Threshold	-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60 dBm
Channel Input Gain	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB
Channel Output Gain	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB
Keypanel Polling ID	5	5	5	5	5	5	-	5
Keypanel Polling Baud Rate	9600	9600	9600	9600	9600	9600	9600	9600
Channel Status								
VOIP Status								
Network Status								
Errors								

## FIGURE 11. Channel Configuration

## Channel Description Field

The **Channel Description** field is used to enter the channel description, if applicable. To change the description, we recommend you use the description field in Device Information on page 16.

This field can contain up to 63 characters.

## Destination Type Drop Down Menu

The Destination Type drop down menu is used to select the type of RVON device to which the channel is connected.

Selections available for this field are: RVON-8, RVON-Keypanel/VKP, RVON-I/O, RVON-C, and RVON-16.

**NOTE:** When the RVON device is initially added to RVONedit, these fields automatically populate with the current channel status.

## **Destination IP Address Field**

The Destination IP Address field is used to enter the IP Address for the device at the other end of the connection.

**IMPORTANT:** This is an editable field. You can enter another IP Address. However, by changing this IP Address, the destination type changes if the destination device type can be determined.

## **Destination Description Field**

The **Destination Description** field displays the destination channel's description, if applicable.

This field cannot be modified.

## **Destination Channel Drop Down Menu**

The **Destination Channel** drop down menu is used to select the channel at the destination device to which the RVON device is connected. Use Table 2 on page 27 to determine the number of channels available for every device type.

**NOTE:** When <default> is selected, the channels match 1 to 1. For example, you may have all channels selected, and by choosing <default>, Ch1 matches to Ch1, Ch2 matches to Ch2, etc. This option is a time saver so you do not have to manually assign each channel.

RVON-8	RVON-Keypanel/ VKP <sup>a</sup>	RVON-I/O	RVON-C	RVON-16
				Channel 1
				Channel 2
				Channel 3
				Channel 4
Channel 1		Channel 1	Channel 1	Channel 5
Channel 2		Channel 2	Channel 2	Channel 6
Channel 3		Channel 3	Channel 3	Channel 7
Channel 4	Channel 1	Channel 4	Channel 4	Channel 8
Channel 5	Channel 2	Channel 5	Channel 5	Channel 9
Channel 6	<default></default>	Channel 6	Channel 6	Channel 10
Channel 7		Channel 7	Channel 7	Channel 11
Channel 8		Channel 8	Channel 8	Channel 12
<default></default>		<default></default>	<default></default>	Channel 13
				Channel 14
				Channel 15
				Channel 16
				<default></default>

	<b>TABLE 2.</b> Destination	Channel Dro	p Down Menu Options	
--	-----------------------------	-------------	---------------------	--

a. The VKP device works on channel 1 only.

## **Destination Channel Description Field**

The Destination Channel Description field displays the destination channel's description, if available.

This field cannot be modified.

## Coding Algorithm Drop Down Menu

The Coding Algorithm drop down menu is used to select the coding algorithm used to transmit audio packets.

Available selections for this field are G.711µ law, G.711A law, G.729AB, G.723 (5.3k), and G.723 (6.3k).

**NOTE:** A Codec<sup>3</sup> (Coder/Decoder) is an algorithm used to compress audio. There are 5 codecs supported by Telex: G.711µ law, G.711A law, G.729AB, G.723 (5.3k), and G.723 (6.3k).

The type of codec chosen dictates the quality of audio you hear and the network bandwidth used. The packet size determines how much audio data is carried across the network in each transmitted packet. The codec type and packet size chosen require different amounts of bandwidth from the network. As with the codec type, the packet size you choose for the audio transfer affects the audio you hear and the bandwidth you use over the network. The larger the audio packet you choose to use, the lower the bandwidth used. However, the larger packet size can result in a higher delay and longer gaps if the packet is lost. On the other hand, smaller packet sizes result in larger bandwidth use, but lower delays and smaller gaps if the packet is lost. The Intercom System Engineer and the Network Administrator may want to work together in choosing the codec type and packet size suitable for the size of the network, so degradation of network resources does not happen

## Audio/Packet Drop Down Menu

The Audio/Packet drop down menu is used to select the audio packet size to transmit.

Field options available are: 30ms and 60ms.

**NOTE:** A Codec<sup>4</sup> (Coder/Decoder) is an algorithm used to compress audio. There are 5 codecs supported by Telex:  $G.711\mu$  law, G.712A law, G.729AB, G.723 (5.3k), and G.723 (6.3k).

The type of codec chosen dictates the quality of audio you hear and the network bandwidth used. The packet size determines how much audio data is carried across the network in each transmitted packet. The codec type and packet size chosen require different amounts of bandwidth from the network. As with the codec type, the packet size you choose for the audio transfer affects the audio you hear and the bandwidth you use over the network. The larger the audio packet you choose to use, the lower the bandwidth used. However, the larger packet size can result in a higher delay and longer gaps if the packet is lost. On the other hand, smaller packet sizes result in larger bandwidth use, but lower delays and smaller gaps if the packet is lost. The Intercom System Engineer and the Network Administrator may want to work together in choosing the codec type and packet size suitable for the size of the network, so degradation of network resources does not

## VAD State Check Box

The **VAD State** check box is used to enable  $VAD^5$  (Voice Activity Detection) on the RVON device. VAD saves network bandwidth by stopping the flow of audio packets when silence is detected.

## VAD Threshold Scroll Arrows

The **VAD Threshold** scroll arrows are used to configure the VAD threshold (for G.711) codec). Setting the VAD threshold tells the channel at what level to start the flow of audio packets. Otherwise, the channel remains silent.

The range for this field is -60dBm to -30dBm, or Adaptive.

**NOTE:** The *Adaptive* option configures its own threshold based on the background noise it determines.

<sup>3.</sup> This type of codec combines analog-to-digital conversion and digital-to-analog conversion functions in a single chip.

<sup>4.</sup> This type of codec combines analog-to-digital conversion and digital-to-analog conversion functions in a single chip.

<sup>5.</sup> VAD allows a data network carrying voice traffic over the Internet to detect the absence of audio and conserve bandwidth by preventing the transmission of silent packets over the network.

## **Channel Input Gain Scroll Arrows**

The Channel Input Gain scroll arrows are used to configure the channel input gain for the channel.

The range for this field is -14dB to 14dB.

**NOTE:** This field is not editable for devices that get input gain from the intercom.

## Channel Output Gain Field

The Channel Output Gain scroll arrows are used to configure the channel output gain for the channel.

The range for this field is -14dB to 14dB.

**NOTE:** This field is not editable for devices that get output gain from the intercom.

## Keypanel Polling ID Drop Down Menu

The Keypanel Polling ID drop down menu used to select the keypanel polling ID for the channel.

Available selections for this field are -, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. The dash represents no polling ID.

**NOTE:** This field is only used with the RVON-I/O in remote mode.

## Keypanel Polling Baud Rate Drop Down Menu

The **Keypanel Polling Baud Rate** drop down menu is used to select the baud rate at which communication is expected to operate.

Selections for this field are 9600, 19200, or 38400.

**NOTE:** This field is only used with the RVON-I/O in remote mode.

## **Channel Status**

The Channel Status displays read-only status information on the channel's connection and communication status.

**NOTE:** If you are connected to a device with *Write* or *Admin* privileges, a context menu is available that allows you to *Clear Connection Statistics for all channels* (right-click in the left title column) or *Clear Connection Statistics for Individual Channels* (right-click in the channel column).

	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8
<b>Channel Configuration</b>								
Channel Status								
Connection State	Idle	Connected	Idle	Idle	Idle	Idle	Idle	Idle
Connection Duration	1 Day, 22:58:59	5 Days, 19:47:2	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00
Coding Algorithm (actual)	-	G.711µ	-	-	-	-	-	-
Audio / Packet (actual)	-	30 ms	-	-	-	-	-	-
VAD State (actual)	-	x	-	-	-	-	-	-
Connection Attempts	1	1	-	-	-	-	-	-
Connection Drops	1	-	-	-	-	-	-	-
Connection Origination	Remote	Remote	Remote	Remote	Remote	Remote	Remote	Remote
Connection Termination	Local	-	Remote	Remote	Remote	Remote	Remote	Remote
Release Reason	Local Onhook	-	Local Onhook					
VOIP Status								
Network Status								
Errors								

## FIGURE 12. Channel Status

## **Connection State Field**

The Connection State field displays the state of the connection.

There are two connection states: Connected or Idle.

## **Connection Duration Field**

The Connection Duration field displays the duration of the current connection or the previous connection, if in an idle state.

The connection duration is shown in *hh/mm/ss*.

## Coding Algorithm (actual) Field

The **Coding Algorithm (actual)** field displays the coding algorithm negotiated for use with the connection. When this is displayed in red, it is different from the configured algorithm.

## Audio/Packet (actual) Field

The Audio/Packet (actual) field displays the audio per packet size of the current connection. When this is displayed in red, it is different from the configured audio/packet value.

## VAD State (actual) Field

The VAD State (actual) field displays the current VAD state. When this is displayed in red, it is different from the configured VAD state.

## **Connection Attempts Field**

The **Connection Attempts** field displays the number of times a call has been made.

**NOTE:** The number of attempts should always be one (1) greater than the number of drops.

#### **Connection Drops Field**

The **Connection Drops** field displays the number of times a connection has been dropped.

## **Connection Origination Field**

The Connection Origination field displays the end of the connection that originated the call.

## **Connection Termination Field**

The Connection Termination field displays the end of the connection that terminated the call.

## Release Reason Field

The **Release Reason** field displays why the connection was terminated. For example, congestion, network error, local release, or remote release.

## **VOIP Status**

The VOIP Status displays read-only statistics and counters related to VOIP.

**NOTE:** If you are connected to a device with *Write* or *Admin* privileges, a context menu is available that allows you to *Clear VOIP Statistics for all channels* (right-click in the left title column) or *Clear VOIP Statistics for Individual Channels* (right-click in the channel column).

	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8
<b>Channel Configuration</b>								
Channel Status								
VOIP Status								
Playout Buffer Size	-	120 ms	-	-	-	-	-	-
Nominal Playout Delay	-	60 ms	-	-	-	-	-	-
Average Playout Delay	-	57 ms	-	-	-	-	-	-
Playout Buffer Underrun	16914031	50339827	-	-	-	-	-	-
Playout Buffer Overrun	-	-	-	-	-	-	-	-
Missing Sequence Packets	-	-	-	-	-	-	-	-
Replayed Packets	-	-	-	-	-	-	-	-
Average Frame Jitter	2 ms	7 ms	-	-	-	-	-	-
Network Status								
Errors								

FIGURE 13. VOIP Status

## Playout Buffer Size Field

The **Playout Buffer Size** field displays how much audio can be received from the network before packets are lost. This is four (4) times bigger than the configured packet size.

This is a static system setting.

## Nominal Playout Delay Field

The **Nominal Playout Delay** field displays how much audio is collected before playout begins. Playout begins at half the playout buffer size, which is two (2) times the configured packet size.

This is a *static system setting*.

#### 32 Application Window Descriptions

#### Average Playout Delay Field

The **Average Playout Delay** field displays the actual average audio collected before packets are played out. The average playout delay is measured over the length of the connection.

## Playout Buffer Underrun Field

The **Playout Buffer Underrun** field displays the number of times that packets were not played because the playout buffer was empty.

## Playout Buffer Overrun Field

The Playout Buffer Overrun field displays the number of packets discarded because the playout buffer was full.

## Missing Sequence Packets Field

The Missing Sequence Packets field displays how many audio packets were missed in the sequence.

## Replayed Packets Field

The Replayed Packets field displays how many audio packets were replayed.

## Average Frame Jitters Field

The Average Frame Jitters field displays the measure of consistency of packet arrival time. Lower jitter is better.

## **Network Status**

The Network Status displays read-only network statistics and counters.

**NOTE:** If you are connected to a device with *Write* or *Admin* privileges, a context menu is available that allows you to *Clear Network Statistics for all channels* (right-click in the left title column) or *Clear Network Statistics for Individual Channels* (right-click in the channel column)

	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Char
Channel Configuration								
Channel Status								
VOIP Status								
Network Status								
Voice Playout Packets (Tx / Rx)	16914043 / 9	16785812 / 3	-1-	-1-	-1-	- [ -	-1-	-
DTMF Playout Packets (Tx / Rx)	-1-	-1-	-1-	-1-	-1-	-1-	-1-	-
Silence Detection Packets (Tx / Rx)	-/1	-/1	-1-	-/-	-/-	-/-	-1-	-
Silence Suppressed Packets (Tx)	-	-	-	-	-	-	-	
Packet Interarrival Time (Min / Max)	5 ms / 13 ms	32 ms / 33 ms	-1-	-1-	-1-	-1-	-1-	-
Recent Bandwidth Use (Tx / Rx)	-1-	80.0 kbps / -	-1-	-1-	-/-	-/-	-1-	-
Average Bandwidth Use (Tx / Rx)	112.0 kbps / -	80.0 kbps / -	-1-	-1-	-1-	-1-	-1-	-
Errors								

FIGURE 14. Network Status

## Voice Playout Packets (Tx/Rx) Field

The Voice Playout Packets (Tx/Rx) field displays the number of voice packets transmitted and received from the other side of the connection.

## DTMF Relay Packets (Tx/Rx) Field

The **DTMF Relay Packets (Tx/Rx)** field displays the number of **DTMF** (Dual Tone Multiple Frequency) relay packets transmitted and received. DTMF relay packets are a bandwidth and quality saving feature within RVON products.

## Silence Detection Packets (Tx/Rx) Field

The Silence Detection Packets (Tx/Rx) field displays the number of times a silence detection packet has been sent or received. VAD must be enabled.

## Packet Interarrival Time (Min/Max) Field

The **Packet Interarrival Time (Min/Max)** field displays the minimum and maximum time elapsed between packets being sent.

## Recent Bandwidth Use (Tx/Rx) Field

The Recent Bandwidth Use (Tx/Rx) field displays the amount of bandwidth used, in Kbytes/sec, over the length of the call.

## Average Bandwidth Use (Tx/Rx) Field

The Average Bandwidth Use (Tx/Rx) field displays the amount of bandwidth used, in Kbytes/sec, over the length of the call.

This is a calculation of the number of voice packets transmitted and received and the length of the connection.

## **Errors Grid**

The Errors Grid displays the read-only error counters.

**NOTE:** If you are connected to a device with *Write* or *Admin* privileges, a context menu is available that allows you to *Clear Error Statistics for all channels* (right-click in the left title column) or *Clear Error Statistics for Individual Channels* (right-click in the channel column).

	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8
Channel Configuration								
Channel Status								
VOIP Status								
Network Status								
Errors								
Invalid Headers	1	-	-	-	-	-	-	-
Invalid MAC Address	-	-	-	-	-	-	-	-
Invalid SSRC	-	-	-	-	-	-	-	-
Invalid Payload	1	-	-	-	-	-	-	-
Invalid Destination	-	-	-	-	-	-	-	-
Lost Packets	-	-	-	-	-	-	-	-
DSP to Micro Overrun	16	6	-	-	-	-	-	-

FIGURE 15. Errors Grid

## Invalid Headers Field

The Invalid Headers field displays how many IP packets could not be parsed.

## Invalid MAC Address Field

The Invalid MAC Address field displays how many invalid MAC Addresses tried to connect.

#### 34 Application Window Descriptions

## Invalid SSRC Field

The Invalid SSRC field displays the number of packets with an invalid SSRC.

## Invalid Payload Field

The Invalid Payload field displays how many incorrectly formatted packets were received.

## Invalid Destination Field

The Invalid Destination field displays how many invalid destinations were received.

Lost Packets Field

The Lost Packets field displays how many packets were lost.

## DSP to Micro Overrun Field

The DSP to Micro Overrun field displays the number of packets that were lost because the micro was too busy to receive.

## Change User Window

The **Change User** window, shown in Figure 16, is used to logon to RVON devices in RVONedit as different preestablished users. RVONedit administrators have the ability to create up to five (5) different user profiles with unique access rights/ privileges (see page 11). This gives administrators the power to limit access to change device configuration values to a few users. User profiles are created in the Authentication area of the Device Configuration and Status section. For more information, see "How to Add/Remove a User Profile To/From the Authentication Table" on page 76.

**NOTE:** By default, RVONedit is shipped with two (2) default user profiles: *admin* and *telex*. They both have the same default password: *password*. We highly recommend you give each user profile a unique password to prevent a security risk to your RVON device configurations.

Change User	<u>? x</u>
Authentication User Name: admin	Save
Password:	<u>o</u> k
	Cancel



**NOTE:** User names and passwords must be setup in Authentication Information in the Device Configuration window. For more information, see "Authentication Information Section" on page 23.

The Authentication group box contains the following information:

## **User Name Field**

The User Name field is used to enter a user name.

This field can contain up to 40 characters.

## **Password Field**

The **Password** field is used to enter the password assigned to the user name entered.

This field can contain up to 40 characters.

## Save Button

The **Save** button saves the user name and password for future logons to the RVON device. The save function remembers the user name and password for the next time the RVON device is accessed, allowing the user to forego entering a user name and password. This is convenient when there are many RVON devices accessed on a routine basis.

**IMPORTANT:** You must click **OK** after the save is performed to store the user name and password for the RVON device.

## **OK Button**

The **OK** button submits the user name and password entered to the intercom system.

- If correct, the RVON device is accessible with the user rights assigned to the user name.
- If incorrect, the Change User window reappears with the user name field populated with no password entered.

## **Cancel Button**

The Cancel button disregards the information entered in the fields and closes the Change User window.

## Manage Logins Window

The **Manage Logins** window, shown in Figure 17, is used to manage the login for one (1) or more RVON devices at a time. The Manage Logins window is similar to the Change User window except you can set user names and passwords for multiple RVON devices without having to individually select the RVON device.

Depending on how you want to configure your user name and password configurations, there are three (3) ways to open the Manage Logins window:

For one device

For all devices

For all devices of a certain device type

For more information, see "How to Open the Manage Logins Window" on page 89.

**NOTE:** By default, RVONedit is shipped with two default user profiles: *admin* and *telex*. They both have the same default password: *password*. We highly recommend you give each user profile a unique password to prevent a security risk to your RVON device configuration.

Select devices to manage: Device List	_	User Name:	
192.168.0.21		, Password:	
<b>X</b> [192.168.0.53]			
192.168.0.23			
192.168.0.22		Store for selected devces	
<b>X</b> 192.168.0.55		Set as application default	
<b>X</b> 192.168.0.26		The default user name and password are used when then is no stored name and password for a device.	
<b>X</b> 192.168.0.60			

FIGURE 17. Manage Logins Window

## Select Devices to Manage List

The Select Devices to Manage list displays a selectable list of devices in which user names and passwords can be configured.

## **User Name Field**

The User Name field is used to enter the user name for the selected devices.

This field can contain up to 40 characters.
# **Password Field**

The **Password** field is used to enter a password for the user name specified. Passwords are a string of characters a user must enter to gain access to a resource.

This field can contain up to 40 characters.

## **Store For Selected Devices Button**

The **Store for Selected Devices** button stores the specified user name and password for the device selected in the Select Devices to Manage list. If this option is utilized, when the device is accessed, the configured user name and password is required to gain access to the device. This feature can be used as a security feature when allowing remote access to your RVON devices.

- **EXAMPLE:** For example, if a remote truck is configuring an RVON 8 device and wants to verify the correct configuration with the studio location's RVON 8 device, the studio location can assign a user name and password that has Read Only access to the information. Once the RVON device is added to the remote location RVONedit application, the remote truck technician can logon and view the configuration settings.
- **NOTE:** When configured, the *Stored* user name and password always supercedes the application default user name and password. If there is no stored user name and password established, the RVON device looks for the default user name and password. If there is no default user name and password established, the RVON device uses the user name: *telex* and password: *password*.

## Set as Application Default Button

The **Set as Application Default** button sets the entered user name and password as the default for the selected devices in the Select Devices to Manage list. This feature allows the user to assign the same default user name and password to many devices simultaneously. This can save time when configuring login information for many devices.

**EXAMPLE:** For example, you can assign a specific user name and password to each RVON device type in your device catalog, as shown in Figure 18. You can also set a global user name and password that applies to all RVON device types.

elect devices to manage:	ecting to Selected Devices User Name:	Set User Name and Password for Connecti Select devices to manage:	- User Name:
Device List	RVON-8 Login		RVON-16 Login
X 192.168.0.21	Password:	192.168.0.20	Password:
x [192.168.0.53]	•••••	[192.168.0.52]	•••••
x 192.168.0.23		<b>X</b> [192.168.1.29]	
× 192.168.0.22	Store for selected devices	<b>X</b> [192.168.1.32]	Store for selected dev
x 192.168.1.21	Set as application default	192.168.1.23	Set as application def
× 192.168.1.26	The default user name and	<b>X</b> [192.168.1.25]	The default user name a
<b>X</b> 192.168.1.27	<ul> <li>password are used when there</li> <li>is no stored name and</li> <li>password for a device.</li> </ul>	192.168.1.37	<ul> <li>password are used when is no stored name and password for a device.</li> </ul>
	Cancel		c
ge Logins	? ×	Manage Logins	
User Name and Password for Conn	ecting to Selected Devices	Set User Name and Password for Connecti	na to Selected Devices
elect devices to manage:	User Name:	Select devices to manage:	User Name:
Device List	RVON-IO Login	Device List	RVON-C Login
× 192.168.0.26	Password:	192.168.0.41	Password:
× 192.168.0.60	•••••	192.168.0.31	•••••
<b>X</b> [192.168.1.106]		<b>X</b> [192.168.1.194]	
× 192.168.210.106	Store for selected devices	<b>X</b> [192.168.1.193]	Store for selected dev
× [192.168.1.107]	Set as application default	192.168.1.191	Set as application def
	The default user name and password are used when there is no stored name and password for a device.		The default user name and password are used when is no stored name and password for a device.
	Cancel		c
	Manage Logins	<u>? ×</u>	
	Set User Name and Password for Conne	ecting to Selected Devices	
	Select devices to manage:	User Name:	
	Device List	RVON Keypanel Login	
	[192.168.0.61]	Password:	
	KP32 @161		
	[192.168.1.162]	Store for selected devices	
	[192.168.1.163]	Set as application default	
	[192.168.1.223]	The default user name and password are used when there is no stored name and	
		password for a device.	

FIGURE 18. Manage Login Window - Set As Application Default Example

**NOTE:** You must have each user name and password defined in the Authentication Information window (see "Authentication Information Section" on page 23). For more information, see "How to Add/Remove a User Profile To/From the Authentication Table" on page 76.

# **Done Button**

The **Done** button closes the Manage Login window.

# Preferences Dialog

The Preferences window allows you to set application, device and channel options for RVONedit.

The Preferences window has four (4) pages:

- Catalog page Allows you to set display options for the device catalog, such as the way RVON devices are seen.
- *Devices page* Allows you to set options for device preferences, such as auto-connecting and displaying device configuration areas.
- *Channels page* Allows you to set options for channel configurations such as, column and row adjustments and display options for RVON-Keypanel aux channel.
- Directories page Allows you to set file locations for save and load directory defaults.

You can also open preferences by selecting *Edit*|*Preferences*, by pressing Alt+Enter, or clicking the preferences icon

## Catalog Page

Preferences	<u>? ×</u>
Catalog Devices Channels Directories	
Catalog Preferences	
Use description instead of IP address if available	
Show All Devices	
Show By Device Type	
OK	Cancel

FIGURE 19. Catalog Page - Preferences Window

## Use Description Instead of IP Address If Available Check Box

The Use Description Instead of IP Address If Available check box allows the user to see the RVONedit device descriptions, instead of the device IP Address. For example, if you have an RVON device with an IP Address, 10.2.210.10, and a description, *slot 2*; in the Device Catalog, the description, *slot 2* is seen instead of the IP Address.

## Show All Devices Check Box

The **Show All Devices** check box allows the user to display all RVONedit devices in the Device Catalog, under the All Devices heading.

### Show By Device Type Check Box

The **Show By Device Type** check box allows the user to display all RVONedit devices grouped by device type. For example, RVON-8, RVON-Keypanel, etc.

#### **Devices Page**



FIGURE 20. Devices Page - Preferences Window

## Auto-Connect When Changing Devices Check Box

The **Auto-Connect When Changing Devices** check box allows the user to auto-connect to RVONedit devices. This means that when devices are changed within the device catalog, RVONedit automatically connects the device or the user name and password window automatically displays for logon.

## Hide SNMP Configuration Check Box

The **Hide SNMP Configuration** check box allows the user to hide the SNMP configuration area. If you do not use the SNMP feature, you can hide the configuration options located in the *Device Configuration and Status* section.

For more information, see "How to Show/Hide the SNMP Configuration Information" on page 71.

## Hide Authentication Table Check Box

The **Hide Authentication Table** check box allows the user to hide the Authentication table area. If you do not use the authentication feature, you can hide the configuration options located in the *Device Configuration and Status* section. For more information see, "How to Show/Hide the Authentication Table" on page 72.

**NOTE:** SNMP and Authentication information is only visible with logged in as *admin*.

## **Channels Page**

Preferences	? ×
Catalog Devices Channels Directories	
Channel Preferences	_
Allow row height adjustments	
Allow column width adjustments	
OK Car	ncel

FIGURE 21. Channels Page - Preferences Window

## Allow Row Height Adjustments Check Box

The Allow Row Height Adjustments check box allows the user to make row height adjustments to the channel configuration grid.

## Allow Column Width Adjustments Check Box

The **Allow Column Width Adjustments** check box allows the user to make column width adjustments to the channel configuration grid.

## **Directories Page**

Preferences
Catalog Devices Channels Directories
Default Directories
Device Catalog (.RVC):
C:\Telex\RVONedit\CATALOG
Device Setup Files (.RVN):
C:\Telex\RVONedit\SETUPS
Firmware Files (.BIB):
C:\Telex\RVONedit\FIRMWARE
OK Cancel

## FIGURE 22. Directories Page - Preferences Window

#### 42 Application Window Descriptions

## Device Catalog (.RVC) Field

The Device Catalog (.RVC) field allows you to set the file location where the device catalog settings are stored. By default,

the device catalog settings are stored in C:|Telex|RVONedit|CATALOG. Use the browse button in to navigate to where you want to store these files.

## Device Setup Files (.RVC) Field

The Device Setup Files (.RVC) field allows the user to set the file location where the device setup files are stored. By default,

the device settings files are stored in C:|Telex|RVONedit|SETUPS. Use the browse button in to navigate to where you want to store these files.

## Firmware Files (.BIB) Field

The Firmware Files (.BIB) field allows the user to set the file location where the firmware files are stored. By default, the

firmware files are stored in C:|Telex|RVONedit|FIRMWARE. Use the browse button in to navigate to where you want to store these files.

# Add Device Window

The Add Devices window, shown in Figure 23 to add RVON devices to RVONedit. There are two (2) ways to add devices on the Add Device window:

- You can manually enter the device information. Use the Add page to perform a search for a specific RVON device by manually entering the IP Address.
- You can search through a list of IP Addresses. Use the Search page to look through a list of all configured RVON devices. When you highlight a device in the Available Devices list, the device information auto-populates the right portion of the window.

For more information, see "How to Add Devices to RVONedit" on page 60.

Add Devices			? ×
Add Search			
Specify Device IP Address: Description:	Find >	Device Information IP Address: Description: Type:	
Device Type:	RVON-8 RVON-8 RVON Keypanel RVON-IO RVON-C RVON-16	Add Do	Ine



## Add Page

## Specify Device Group Box

Use the **Specify Device** group box to enter specific information about the RVON device you are adding to the application, such as IP Address, Description, and Device Type.

## IP Address Field

The **IP** Address field is used to enter the IP Address of the RVON device you want to add to RVONedit. Once the IP Address is entered, the Find button becomes active.

## Find Button

The Find button is used to search and find the IP Address you enter in the IP Address field.

## **Description** Field

The Description field is used to enter a description of the RVON device you are adding to the application.

**NOTE:** If the description is different from the configured RVON device, the description is overwritten with the original description.

## Device Type Drop Down List

The Device Type drop down list is used to select the type of RVON device for which you are searching.

Available selections for this field are RVON-8, RVON-Keypanel, RVON-I/O, RVON-C, and RVON-16.

## **Device Information Group Box**

The Device Information area on the Add Device window displays information for the selected devices. Information includes:

IP Address Description Type Sessions

**NOTE:** This information is for display only, you cannot modify the information in the window.

## Add Button

The Add button is used to add the selected device to the device catalog.

### **Done Button**

The **Done** button is used to close the *Add Device* window.

## **Search Page**

Add Devices		<u>?</u> ×
Add Search Available Devices	Device Informat	
192.168.1.106	IP Address: Description:	192.168.1.106 KP32-GFX
	Туре:	RVON-IO
	Sessions:	16/16 Available
		Add Done
		Add Done

FIGURE 24. Search Page - Add Devices Window

The Available Devices list displays every configured RVON device in the intercom system.

**NOTE:** You can add multiple RVON devices by holding down the **Ctrl** button and selecting each device individually or hold the **Ctrl+Shift** and highlight the entire block of devices.

The Device Information area on the Add Device window displays information for the selected devices. Information includes:

IP Address

Description

Type

Sessions

**NOTE:** This information is for display only, you cannot modify the information in this window.

## Add Button

The Add button is used to add the selected device to the device catalog.

## **Done Button**

The Done button is used to close the Add Device window.

# Send Changes

The **Send Changes** window, shown in Figure 25, is used to select RVON devices and configuration modifications made to RVON devices and send them to the device. Send Changes allows you to verify and confirm the modifications about to be implemented and allows you to clear any of the device or configuration check boxes to cancel specific modifications from being sent.

**NOTE:** RVONedit version 2.0.0 and higher is now able to open more than one (1) window at a time. In turn, you can modify and send multiple device modifications simultaneously. For more information, see "How to Send Changes" on page 65.

This window only shows those items that have had changes made to them. If no changes have been made, the grid item does not appear. For example, if you make changes to the IP Address on the RVON device, but make no changes to the description, the IP Address check box appears, but the Description check box does not appear.

NOTE: To send changes to the intercom, you must have Write or Admin access rights for the data being sent.

# **Channel Configuration Page**

elect devices to send:	Select attributes of selected device to send:				_												
Thanged Devices	Changed Channel Attributes	1	2	3	4	5	6	7	8								
<b>X</b> 192.168.210.106	X Channel Description	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
🗙 🔄 slot 9	X Destination Type	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
House of Style	X Destination IP Address	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	🔀 Destination Channel	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KP32 @161	X Coding Profile	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	X VAD Threshold	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	🔀 Channel Input Gain	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	🔀 Channel Output Gain	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	🔀 Keypanel Polling ID	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	🔀 Keypanel Polling Baud Rate	X	-	-	+		-		-		-				-		-
			-	-													

FIGURE 25. Channel Configuration Page - Send Changes Window

#### 46 Application Window Descriptions

# **Select Devices To Send Box**

# **Changed Devices List**

The **Changed Devices** list displays a list of RVON devices with modifications made to their configurations. When the check box next to the device is selected, the device changes are sent to the device.

Sen	d Changes
EB	eview Changes
	Select devices to send:
	Changed Devices
	🗖 🔜 slot 8
	<b>X</b> [192.168.1.193]
	🔲 🔜 slot 3
	KP32-GF

## Select Attributes of Selected Device to Send

## **Changed Channel Attributes**

The **Changed Channel Attributes** list displays a list of channel attributes and channels that have modifications made to them. Depending on the RVON device you select, the number of displayed channel columns varies from 8 to 16.

When an attribute and channel have a change pending, the check box next to the attribute and channel becomes active.

If you clear the check box, the change is not implemented on the device..



> Select each **attribute and channel** you want to allow the changes to be made upon.

## Channel Description Check Box

The **Channel Description** check box indicates modifications have been made to the Channel Description field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

## **Destination Type Check Box**

The **Destination Type** check box indicates modifications have been made to the Destination Type field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

## **Destination IP Address Check Box**

The **Destination IP Address** check box indicates modifications have been made to the Destination IP Address field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

## **Destination Channel Check Box**

The **Destination Channel** check box indicates modifications have been made to the Destination Channel field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

## Coding Profile Check Box

The **Coding Profile** check box indicates modifications have been made to the Coding Profile field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

## VAD Threshold Check Box

The **Vad Threshold** check box indicates modifications have been made to the VAD Threshold field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

### **Channel Input Gain Check Box**

The **Channel Input Gain** check box indicates modifications have been made to the Channel Input Gain field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

## Channel Output Gain Check Box

The **Channel Output Gain** check box indicates modifications have been made to the Channel Output Gain field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

### Keypanel Polling ID Check Box

The **Keypanel Polling ID** check box indicates modifications have been made to the Keypanel Polling ID field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

### Keypanel Polling Baud Rate Check Box

The **Keypanel Polling Baud Rate** check box indicates modifications have been made to the Keypanel Polling Baud Rate field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

### Auto-Close After All Changes Sent Successfully Check Box

The Auto-Close After All Changes Sent Successfully check box is used to enable the Send Change window to automatically close the when all changes have been sent successfully.

## **Device Configuration Page**

elect devices to send:	Select attributes of selected device to send:
Changed Devices	Changed Device Attributes
🗙 📃 192.168.210.106	IP Address
🗙 🔄 slot 9	X Netmask
House of Style	X Gateway
<b>X</b> 23	X Description
🗙 🔜 КРЗ2 @161	Ethernet Settings
	Reass-Through IP Address (Port 1)
	Ress-Through Destination Port (Port 1)
	Rease-Through Baud Rate (Port 1)
	R Pass-Through IP Address (Port 2)
	Rease-Through Destination Port (Port 2)
	Pass-Through Baud Rate (Port 2)
	SNMP Information
	Device Configuration / Channel Configuration /

FIGURE 26. Device Configuration Page - Send Changes Window

## Select Attributes of Selected Devices Send List

## **IP** Address Check Box

The **IP** Address check box indicates modifications have been made to the IP Address field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

## **Description Check Box**

The **Description** check box indicates modifications have been made to the Description field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

## Ethernet Settings Check Box

The **Ethernet Settings** check box indicates modifications have been made to the Ethernet Settings field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

## Pass-Through IP Address Check Box

The **Pass-Through IP Address** check box indicates modifications have been made to the Pass-Through IP Address field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

## Pass-Through Baud Rate Check Box

The **Pass-Through Baud Rate** check box indicates modifications have been made to the Pass-Through Baud Rate field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

## **GPIO** Mode Check Box

The **GPIO** Mode check box indicates modifications have been made to the GPIO Mode field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

## **GPIO** Mode IP Address

The **GPIO Mode IP Address** check box indicates modifications have been made to the GPIO Mode IP Address field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

## SNMP Information Check Box

The **SNMP Information** check box indicates modifications have been made to the SNMP Information field. If selected when a Send Change is performed, the modifications are sent to the device. Otherwise, the modifications are not sent.

## Auto-Close After All Changes Sent Successfully Check Box

The Auto-Close After All Changes Sent Successfully check box is used to enable the Send Change window to automatically close the when all changes have been sent successfully.

# Paste Special Window

The **Paste Special** window, shown in Figure 27, is used to select different channel and/or device configuration items that have been copied from one device to the current RVON device.

The Paste Special window has two (2) pages-Channel Configuration Page and Device Configuration Page.

## **Channel Configuration Page**

The **Channel Configuration Page**, shown in Figure 27, is used to select the options you want to copy to the device and then select the channels on the selected device you want to paste the selected configuration options.

Channel Configuration	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Channel Description	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
X Destination Type	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	X
E Destination IP Address	×	×	X	×	×	×	×	×	×	×	×	×	×	×	×	X
🗵 Destination Channel	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	X
🔀 Coding Profile	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	X
🗴 VAD Threshold	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	X
🗶 Keypanel Polling ID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
🔀 Keypanel Polling Baud Rate	X	×	X	×	×	×	X	×	×	×	X	X	×	X	X	X
Device Configuration Channel Configu	ration /															

FIGURE 27. Channel Configuration Page - Paste Special Window

# **Changed Devices List**

## **Channel Configuration List**

The **Channel Configuration** list displays the channels available to paste channel information into, if applicable. Depending on the RVON device you have selected, the number of displayed channel columns varies. If you have an RVON-8 device selected, 8 channel columns are shown, if you have an RVON-16 selected, 16 channels are shown.

> Select each **channel** you want to allow the paste to be performed upon.

## **Channel Description Check Box**

The **Channel Description** check box indicates the channel description should be pasted into the new channel configuration.

Select the Channel Description check box if you want to paste the channel description information to the new channel configuration. Otherwise, clear the check box to do nothing

## Destination Type Check Box

The **Destination Type** check box indicates the destination type should be pasted into the new channel configuration.

Select the Destination Type check box if you want to paste the destination type information to the new channel configuration. Otherwise, clear the check box to do nothing.

## **Destination IP Address Check Box**

The **Destination IP Address** check box indicates the destination IP Address should be pasted into the new channel configuration.

Select the Destination IP Address check box if you want to paste the destination IP Address information to the new channel configuration. Otherwise, clear the check box to do nothing.

## **Destination Channel Check Box**

The **Destination Channel** check box indicates the destination channel should be pasted into the new channel configuration.

Select the Destination Channel check box if you want to paste the destination channel information to the new channel configuration. Otherwise, clear the check box to do nothing.

## Coding Profile Check Box

The **Coding Profile** check box indicates the coding profile should be pasted into the new channel configuration.

Select the Coding Profile check box if you want to paste the coding profile information to the new channel configuration. Otherwise, clear the check box to do nothing.

## VAD Threshold Check Box

The VAD Threshold check box indicates the VAD threshold should be pasted into the new channel configuration.

Select the VAD Threshold check box if you want to paste the VAD threshold information to the new channel configuration. Otherwise, clear the check box to do nothing.

### Channel Input Gain Check Box

The **Channel Input Gain** check box indicates the channel input gain information should be pasted into the new channel configuration.

Select the Channel Input Gain check box if you want to paste the channel input gain information to the new channel configuration. Otherwise, clear the check box to do nothing.

### **Channel Output Gain Check Box**

The **Channel Output Gain** check box indicates the channel output gain information should be pasted into the new channel configuration.

Select the Channel Output Gain check box if you want to paste the channel output gain information to the new channel configuration. Otherwise, clear the check box to do nothing.

## Keypanel Polling ID Check Box

The **Keypanel Polling ID** check box indicates the keypanel polling ID information should be pasted into the new channel configuration.

Select the Keypanel Polling ID check box if you want to paste the keypanel polling ID information to the new channel configuration. Otherwise, clear the check box to do nothing.

## Keypanel Polling Baud Rate Check Box

The **Keypanel Polling Baud Rate** check box indicates the keypanel polling baud rate information should be pasted into the new channel configuration.

Select the Keypanel Polling Baud Rate check box if you want to paste the keypanel polling baud rate information to the new channel configuration. Otherwise, clear the check box to do nothing.

## **Device Configuration Page**

The **Device Configuration** page, shown in Figure 28, displays the different options you can select to paste to the new device configuration.

Description     Pass-Through IP Address (Port 1)     Pass-Through Destination Port (Port 1)     Pass-Through Baud Rate (Port 1)	
Pass-Through Destination Port (Port 1)	
Pass-Through Baud Rate (Port 1)	
Pass-Through IP Address (Port 2)	
Pass-Through Destination Port (Port 2)	
Pass-Through Baud Rate (Port 2)	
GPIO Mode	
GPIO IP Address	
🔲 GPIO Keypanel	
Device Configuration (Channel Configuration /	

FIGURE 28. Device Configuration Page - Paste Special Window

## IP Address Check Box

The IP Address check box indicates the IP Address information should be pasted into the new device configuration.

Select the IP Address check box if you want to paste the IP Address information to the new device configuration. Otherwise, clear the check box to do nothing.

## Netmask Check Box

The Netmask check box indicates the Netmask information should be pasted into the new device configuration.

Select the Netmask check box if you want to paste the Netmask information to the new device configuration. Otherwise, clear the check box to do nothing.

### **Gateway Check Box**

The Gateway check box indicates the Gateway information should be pasted into the new device configuration.

Select the Gateway check box if you want to paste the Gateway information to the new device configuration. Otherwise, clear the check box to do nothing.

### **Description Check Box**

The **Description** check box indicates the description information should be pasted into the new device configuration.

Select the Description check box if you want to paste the description information to the new device configuration. Otherwise, clear the check box to do nothing.

### **Ethernet Settings Check Box**

The **Ethernet Settings** check box indicates the Ethernet settings information should be pasted into the new device configuration.

Select the Ethernet Settings check box if you want to paste the Ethernet settings information to the new device configuration. Otherwise, clear the check box to do nothing.

#### Pass-Through IP Address Check Box

The **Pass-through IP** Address check box indicates the pass-through IP Address information should be pasted into the new device configuration.

Select the Pass-Through IP Address check box if you want to paste the pass-through IP Address information to the new device configuration. Otherwise, clear the check box to do nothing.

### **GPIO** Mode Check Box

The GPIO Mode check box indicates the GPIO mode information should be pasted into the new device configuration.

Select the GPIO Mode check box if you want to paste the GPIO mode information to the new device configuration. Otherwise, clear the check box to do nothing.

## **GPIO IP** Address Check Box

The **GPIO IP** Address check box indicates the GPIO IP Address information should be pasted into the new device configuration.

Select the GPIO IP Address check box if you want to paste the GPIO IP Address information to the new device configuration. Otherwise, clear the check box to do nothing.

### **GPIO** Keypanel Check Box

The GPIO Keypanel check box indicates the GPIO keypanel information should be pasted into the new device configuration.

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Select the GPIO Keypanel check box if you want to paste the GPIO keypanel information to the new device configuration. Otherwise, clear the check box to do nothing.

## **Options button**

The **Options** button, shown in Figure 29, displays pop-up options for the Paste Special window. These options are explained in detail in the following paragraphs.

Channel Configuration		1	2	з	4	5	6	7	8
Channel Description		X	X	X	X	X	X	X	×
E Destination Type		X	X	×	×	×	X	×	×
E Destination IP Address		X	×	×	×	×	×	×	×
🔀 Destination Channel		X	×	×	×	×	X	×	×
🔀 Coding Profile		X	×	×	×	×	×	×	×
X VAD Threshold		X	×	×	×	×	×	×	×
🔀 Keypanel Polling ID		×	×	×	×	×	×	×	×
🔀 Keypanel Polling Baud Rate		×	×	×	×	×	×	×	×
Show Clipboard Selections Show Paste Special Defaults	ılts								
Save Selections as Paste Special Defau	<b></b>								

FIGURE 29. Options Button - Paste Special Window

## Show Clipboard Selections Pop-up Option

The Show Clipboard Selections pop-up option indicates only those items you copied appear in the Paste Special window.

## Show Paste Special Defaults Pop-up Option

The Show Paste Special Defaults pop-up option indicates the defaults set to show for the Paste Special window appear.

By default, all channels and all configuration options are selected. You can remove the check mark from any of the check boxes you do not want to paste into the new configuration page.

## Save Selections As Paste Special Defaults Pop-up Option

The **Save Selections As Paste Special Defaults** pop-up option saves the currently selected options as the paste special defaults.

✓ Show Paste	oard Selections 9 Special Defaults 1:ions as Paste Special Defaults		
All Attributes			Select
Device Attributes			Clear
Channel At	tributes	►	Invert
Options			

FIGURE 30. Select, Clear, Invert Attributes

## All Attributes Pop-up Option

The **All Attributes** pop-up option is used to select, clear or invert all attributes listed on both the Device and Channel Configuration pages.

The available selections are

*Select*- selects and places a check mark in every check box on all channels.

Clear- clears all check marks from every check box.

*Invert*- reverses the all selections in the current Device and Channel views. For example, selected check boxes are cleared, while deselected check boxes become selected.

## **Device** Attributes Pop-up Option

The Device Attributes pop-up option is used to select, clear or invert attributes listed on Device Attributes page.

The available selections are

Select- selects and places a check mark in every check box on the page.

*Clear*- clears all check marks from every check box on the page.

*Invert*- reverses the all selections on the current Device page. For example, selected check boxes are cleared, while deselected check boxes become selected.

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## **Channel Attributes Pop-up Option**

The Channel Attributes pop-up option is used to select, clear or invert attributes listed on Channel Attributes page.

The available selections are

*Select*- selects and places a check mark in every check box on the page.

- Clear- clears all check marks from every check box on the page.
- *Invert* reverses the all selections on the current Channel page. For example, selected check boxes are cleared, while deselected check boxes become selected.

# Download Firmware Window

The **Download Firmware** window, shown in Figure 31, is used to easily upgrade the firmware for any of the RVON devices. Remember, you must have Download privileges before you can download firmware to RVON devices.

For detailed information, see "How to Download Firmware Upgrades in RVONedit" on page 62.

RVONedit can download firmware to any RVON device with the following firmware versions:

FIRMWARE	VERSION
RVON-8	V 1.2.0 or higher
RVON- Keypanel	V 1.1.0 or higher
RVON-I/O	V 1.0 or higher
RVON-C	V 1.0 or higher
RVON-16	V 2.0.0 or higher

**NOTE:** You can only download firmware for one (1) type of RVON device at a time. You can download to multiple RVON devices that are the same.

De	ownload Firmware				<u>?</u> ×
	Select Device Type:	RVON-16	T		
	Select Devices to Dov	vnload:			
	IP Address	Description	Firmware Version	Status	
	192.168.0.20	192.168.0.20			
	192.168.0.52				
	192.168.1.29	slot 9	ADAM RVON-16 Card, Version 2.1.3, Jan 29 2008		
	Select Firmware File:				
	Auto-close after	successful downloa	d	Begin	ancel

FIGURE 31. Download Firmware Window

## Select Device Type Drop Down Menu

The Select Device Type drop down menu is used to select the type of RVON device for firmware upgrade.

Options available are: RVON-8, RVON-Keypanel, RVON-I/O, RVON-C, and RVON-16.

## Select Devices To Download Field

The Select Devices To Download field displays the following information:

IP Address-	Displays the IP Address of the RVON device (for example, 192.168.1.29).
Description-	Displays the textual description of the RVON device (for example, slot 9).
Firmware Version-	Displays the version of firmware that currently resides on the RVON device.
Status-	Displays the status of the download of the firmware to the RVON device. A blue status bar with each of the following:
	• Sending
	• Einisking

- Finishing
- Complete

If you click Stop before the download is complete or something did not allow the download to finish, a failed message is displayed in this column

## Select Firmware Drop Down Menu

The **Select Firmware File** drop down menu displays the firmware for download. If you have downloaded different version of the firmware and downloaded them to other RVON devices, and then you are able to use the drop down list to see the different versions that have been downloaded to other devices.

## Auto-Close After Successful Download Check Box

The Auto-Close After Successful Download check box is used to indicate the Download Firmware window automatically closes when the firmware download is complete.

## **Begin Button**

The **Begin** button is used to start the firmware download.

For more information, see "How to Download Firmware Upgrades in RVONedit" on page 62.

# CHAPTER 3 Application Tasks

In this chapter you will find many setup and maintenance tasks that you may only perform once or perform on a daily basis:

# How to Open Multiple Windows in RVONedit

RVONedit version 2.0.0 and higher now allows you to open multiple RVONedit windows and make changes to multiple devices simultaneously. Also, you are able to send changes made to multiple devices at the same time. Before version 2.0.0, you were able to send changes for one (1) device at a time.

There are three (3) ways to open new windows in RVONedit:

Window|New Shift + Click in the device catalog Right-click menu

To open a new window using the menu bar, do the following:

> From the Window menu, select New. *A new RVONedit window appears.* 



To open a new window using Shift+click in the device catalog, do the following:

- 1. On the keyboard, press and hold down the Shift key.
- 2. Using the mouse, click anywhere in the **device catalog area** of the application window. *A new RVONedit window appears.*

To open a new window using a right-click, do the following:

1. In the Device Catalog area, right-click on either an **RVON device**, **All Devices**, or **By Device Type** icon. *A popup menu appears*.



2. From the popup menu, select **Open in a new window**. *A new RVONedit window appears.* 

# How to Add Devices to RVONedit

Once you have installed the RVONedit application, you must then add the device to be monitored or displayed. This may be done automatically or manually by entering the IP (Internet Protocol) Address.

To search for RVON devices, do the following:

1. From the RVON menu, select Add. *The Add Devices Window appears* 

Add Devices		<u>?</u> ×
Add Search		
- Available Devices	Device Informat	ion
192.168.1.34	IP Address:	192.168.1.34
	Description:	slot 4
	Type:	RVON-8
	Sessions:	16/16 Available
		Add Done

- 2. Verify you are on the Search page of the Add Devices window.
- 3. From the Available Devices list, select the IP Address of the device you want to add to RVONedit.

**NOTE:** You can add more than one (1) device at a time by doing the following:

• To select a block of IP Addresses, highlight the **first IP Address**, press and hold **Ctrl+Shift**, and then scroll and select the last **IP Address** in the block you want. *All of the IP Addresses are selected*.

- To select multiple IP Addresses that are not in a block, press and hold the **Ctrl** key, then select the **IP Addresses** you want to add to RVONedit.
- Notice in the IP Address field under Device Information on the right-hand side of the application pane, you can see *<multiple selections>*.

Add Devices	? ×
Add Search Available Devices 10.2.210.29 10.2.210.33 10.2.210.162 [10.2.210.23]	Device Information IP Address: <a href="https://www.initedocumentation">www.initedocumentation</a> Description: Type: Sessions:
	Add Done

4. Click Add.

The devices are added to the RVONedit Catalog view.

5. Click Done. *The Add Devices Window closes.* 

To add a Device manually to RVONedit, do the following:

- 1. From the RVON menu, select Add. *The Add Devices Window appears*
- 2. Click the Add page.

The Add Dialog appears.

Add Devices			? ×
Add Search			
Specify Device		Device Informatio	n
IP Address:	Find >	IP Address:	
Description:		Description: Type:	
Device Type:	RVON-8	Sessions:	
	RVON-8		
	RVON Keypanel		
	RVON-IO		Add Done
	RVON-C		
	RVON-16		

**3.** Under Specify Device, add the **IP** Address of the device to which you want to connect. *Once you have entered the IP Address, the Find button becomes active.* 

**NOTE:** You can only add one (1) device at a time when entering the IP Address manually.

- **4.** Click **Add**. *The Add Device Window remains open and the RVON device is added to the Catalog view on the main Window.*
- 5. Repeat steps 1-3 to add more devices manually.
- 6. Once finished, click **Done**. *The Add Devices window closes*.

# How to Download Firmware Upgrades in RVONedit

Occasionally, RVON products have firmware upgrades. Once you have upgraded the RVON products to the required versions (see page 11) through AZedit, Telnet, or serially, you can download firmware from RVONedit directly to the device.

To download firmware to the RVON cards, do the following:

- 1. From the RVON menu, select **Download Firmware**. *The Download Firmware window appears*.
- 2. From the Device Type drop down menu, select the **type of device** to be upgraded with firmware (for example, RVON-8, RVON-Keypanel, RVON-I/O, RVON-C, or RVON-16).

Download Firmware				? ×
Select Device Type:	RVON-IO RVON-8 RVON Keypanel			
IP Address 192.168.0.26 192.168.0.60 192.168.1.106	RVON-IO RVON-C RVON-16	Version	Status	
192.168.210.106 192.168.1.107	192.168.210 ADAM RVC	DN-IO Card, Version 2.1.6, Oct 28 2008		
Select Firmware File:				<b>-</b>
Auto-close after s	uccessful download		Begin	Cancel

- 3. From the Select Devices to Download: list, select the devices to which you want to apply the firmware.
  - **NOTE:** You can add more than one (1) device at a time by doing the following:
    - To select a block of devices, select (highlight) the first device, press and hold **Ctrl+Shift**, and then scroll and select the **last device** in the list. *All of the devices are selected.*
    - To select multiple devices that are not in a block, press and hold the **Ctrl** key, then select the devices one-by-one to add to RVONedit.
- 4. In the Select Firmware File field, enter the **path to the firmware update**, or use the browse button ... to navigate to the file.
- 5. Select the Auto-close after successful download check box, if you want to close the Download Firmware Window immediately after a successful download.
- 6. Click Begin. The Download begins.
  - **NOTE:** This may take a few minutes. You can watch the download using the RVON device download status bar.

C

De	ownload Firmware						<u>? ×</u>
	Select Device Type:	RVON-8	<b>-</b>			Cha	nge User
	Select Devices to Dowr	nload:					
	IP Address	Description	Firmware Version	Status			
	10.2.210.21	slot 1	ADAM RVON-8 Card, Version 2.0.0, Nov 10 2006	Complete			
	10.2.210.28	slot 8	ADAM RVON-8 Card, Version 2.0.0, Nov 10 2006		Sending		
	10.2.210.34	slot 14	ADAM RVON-8 Card, Version 2.0.0, Nov 10 2006				
	<u> </u>						
	Select Firmware File:						
	C:\TELEX\RVONedit\F	-IRMWARE\RVON-	-8\rvon8 140B.bib				
	,		_				
	Auto-close after s	uccessful downloa	d		Begin	1	Stop
	,		-				
-							

Once the download is complete, it may take a few minutes for the RVON devices to reboot themselves. You can also watch as the device blocks dim, and then re-light with the reboot.



7. Repeat steps 1 through 6 to download firmware to other RVON devices, otherwise click Done.

# How to Change a User

To change a user in RVONedit, do the following:

1. From the RVON menu, select **Change User**. *The Change User Window appears*.

Change User	<u>? ×</u>
Authentication User Name: admin	Save
Password:	<u>Q</u> K <u>C</u> ancel

- 2. In the User Name field, enter the User Name (up to 40 characters) of the profile you want to log on to RVONedit.
- 3. In the Password field, enter the **password** (up to 40 characters) for the profile you are logging onto RVONedit.
- 4. Click Save, if you want the user name and password retained for future logins to this machine.
- 5. Click OK to confirm the user name and password. Otherwise, click Cancel.

# How to Send Changes

When changes or modifications are made to most configuration options in RVONedit, they are not applied to the device until the changes are sent to the device.

**NOTE:** RVONedit version 2.0.0 and higher, supports making and sending changes for multiple devices.

To send changes to the device, do the following:

From the Changes menu, select Send or click the Send Changes icon.
 The Send Changes window appears.

I Changes eview Changes		?
Select devices to send:	Select attributes of selected device to send:	
Changed Devices	Changed Device Attributes	-
<b>X</b> 192.168.210.106	X IP Address	
🔀 🔄 slot 9	X Netmask	1
House of Style	🕱 Gateway	
23	X Description	
KP32 @161	₩ Ethernet Settings	11
	Rass-Through IP Address (Port 1)	
	Rass-Through Destination Port (Port 1)	1
	Rass-Through Baud Rate (Port 1)	
	Rass-Through IP Address (Port 2)	
	Rass-Through Destination Port (Port 2)	1
	Rass-Through Baud Rate (Port 2)	
	SNMP Information	
	Device Configuration / Channel Configuration /	•
Auto-close after all changes se	nt successfully Send Car	ncel

- 2. On the Send Changes Window, review the changes you are about to send to the device.
- 3. Make any **modifications** necessary.
- 4. Click Send when you are finished, otherwise click Cancel.

# How to Copy and Paste Channel Settings

RVONedit supports copying and pasting individual channel configuration setting, making it easy to setup configuration files for different channels on the same device or for channels on different devices.

To copy and paste channel settings, do the following:

- 1. From the Device Catalog, select the device you want to copy the channel configuration settings.
- 2. In the Channel Configurations section, select the channel column header of the channel you want to copy.
- **3.** From the Edit menu, select **Copy** or click the copy icon. *The channel settings are copied.*

**NOTE:** You can also copy the settings by pressing **Ctrl+C** on the keyboard.

4. In the same Channel Configuration Grid, select a **different channel column header** on the same device OR

select a different device's channel column.

From the Edit menu, select Paste or click the paste icon. The copied information appears in yellow highlight.

NOTE: You can also paste the settings by pressing Ctrl+V on the keyboard.

6. Send or Save your changes.

# Use Paste Special to Paste Device Settings.

**Paste Special** allows you to copy entire device configuration settings of a device and then select specific configuration settings to paste to a new device.

To paste device settings using paste special, do the following:

- 1. From the Device Catalog, select the device to which you want to copy the device settings.
- From the Edit menu, select Copy or click the copy icon.
   The Device Settings are copied.

**NOTE:** You can also copy the settings by pressing **Ctrl+C** on the keyboard.

- 3. From the Device Catalog, select the **device** to which you want to copy the device settings.
- **4.** From the Edit menu, select **Paste Special**. *The Paste Special window appears.*

Paste Special
Select Attributes to Paste
Device Configuration
Pass-Through IP Address (Port 1)
Pass-Through Destination Port (Port 1)
Pass-Through Baud Rate (Port 1)
Pass-Through IP Address (Port 2)
Pass-Through Destination Port (Port 2)
Pass-Through Baud Rate (Port 2)
GPIO Mode
GPIO IP Address
GPIO Keypanel
Device Configuration / Channel Configuration /
Options Paste Cancel

- 5. Select the check boxes of the device configurations you do NOT want to paste to the new device.
- 6. Once you are finished, click **Paste**. *The settings are pasted to the current device*.
- 7. Send or Save the changes.

# Use Paste Special to Paste Channel Settings

Paste Special allows you to copy channel configuration settings of a device and then select specific channel settings to paste to a new device.

To paste channel settings using paste special, do the following:

- 1. From the Device Catalog, select the device to which you want to copy channel settings.
- From the Edit menu, select Copy or click the copy icon.
   *The channel settings are copied.*

**NOTE:** You can also copy the settings by pressing **Ctrl+C** on the keyboard.

- 3. From the Device Catalog, select the device to which you want to copy channel settings.
- **4.** From the edit menu, select **Paste Special**. *The Paste Special window opens.*

Channel Configuration	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
X Channel Description	×	×	×	×	×	×	×	×	×	×	×	X	X	×	×	×
X Destination Type	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	X
🗙 Destination IP Address	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
🗴 Destination Channel	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
🗙 Coding Profile	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	X
XAD Threshold	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
🗶 Keypanel Polling ID	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	X
🗙 Keypanel Polling Baud Rate	X	×	X	X	×	X	X	×	×	X	×	X	X	×	×	X
Device Configuration Channel Configu	uration /															

- 5. Clear the check boxes of the channel settings and the channels you do NOT want to paste.
- 6. Once you are finished, click **Paste**. *The current settings are pasted to the current device*.

# How to Open Preferences

You can configure the RVONedit application by setting some of the application configurations to fit your individual business needs.

To open the Preferences window, do the following:

1. From the Edit menu, select **Preferences** or click the preferences icon.

There are four (4) pages in the Preference Dialog notebook. These pages contain the following:

*Device Catalog Configurations* - You can set how you see the devices in the catalog (By Type or All Devices). You can also enable using the Device Description instead of the IP Address in the Device Catalog.

Row and column adjustments

*Show/Hide Informational Areas* - You can show or hide SNMP and/or the Authentication area of the Device Configuration section of the application.

*Default Information Folders* - You can set the default folders to where RVONedit saves information for Device Catalogs, Setup Files, and Firmware Files.

# *How to Show/Hide the Device Catalog*

Once you have added devices to the device catalog, you are ready to configure them. If you do not have a need to refer to a device in the device catalog, you can hide the whole section, creating more room in the application window.

There are several ways to Hide/Show the Device Catalog, described below:

> Double-click the **divider bar**.

Al Devices	Device Information											
By Device Type	Configuration					Status						
E RVON-8	Description:					Trees 1	VON-30 - Local M	uda .				
192.168.0.21		IP Address: 192.168.1.107 Disable Auto-Negotiation						Satus: CONNECTED: ARWTD				
[192.168.0.53]								TD				
192.168.0.23	Netmask: 255.252	5.255.0		clex @ 100 M			5/16 Available					
- 192.168.0.22	Gateway: 192.16	3.1.1	C Half D	spiex C 10 Mi		Channels:	900006	10				
192.168.1.21	Version: ADAM P	NON-10 Card. V	Aersion 2.1.6, Or	2 28 2008	_	Keypanels:	900006	-0				
Divider Bar												
RVON Keypanel	Pass-Through / GPIO Inform	ation										
[192.168.0.61]	Serial To Ethernet			Ethernet To Seri	d		GP10					
- KP32 @161	Tx IP Address:	1.0.0.0	_	Rx IP Add	ess: 0.0.0.0		19	idei 1 Keypan	el 💌			
[192.168.1.162]	Destination Port:	1	*	Destination R	Port: 0		IP Add	ess: 0.0.0.0				
[192.168.1.163]	Baud Rate:			Unexpected By				net 1	-			
[192.168.1.223]			-					Contraction of the local division of the loc	_			
RVON-IO	Bytes Transferred:		_	Bytes Transfer	red: 0			uts 0000				
192.168.0.26	Bytes Lost:			Bytes i	ost: 0		Outp	MR 0000	00000			
192.168.0.60	Errors: 0	)		En	0 1210							
[192.168.1.106]												
192.168.210.106												
[192.168.1.107]												
RVON-C	11 III III III III III III III III III											
192.168.0.41	Channel Configuration	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8			
192,168.0.31	Channel Description					_	-	-				
[192.168.1.194]	Destination Type	RYON-8	RVON-8	RVON-8	RVON-8	RYON-8	RVON-8	RYON-8	RVON-8			
[192.168.1.190]	Destination IP Address	192.168.1.28										
192.168.1.191	Destination Description											
RVON-16	Destination Channel	Channel 7	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 2			
192.168.0.20	Destination Channel Description Coding Algorithm	6 722 1 (6 34)	C 722 1 /4 364	6 723 1 /6 303	6 722 1 /6 34	6 723 1 /6 38	6 722 1 /6 340	6 722 1 (6 34)	6 722 1 /6 363			
[192.168.0.52]	Audio / Packet	60 ms	60 ms	60.86	60 ms	60.06	60 ms	60.65	60 ms			
	VAD State		E				E	D	0			
[192.168.1.29]	VAD Threshold	-60 dBm	-60 d8m	-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60 dBm			
[192.168.1.32]	Channel Input Gain	0.08	0 d8	0.08	0.08	0.08	0.08	0 d8	0.08			
192.168.1.23	Channel Output Gain	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08			
[192.168.1.25]	Keypanel Poling ID Keypanel Poling Baud Rate	9600	9600	9600	9600	9600	9600	9600	9600			
- 192.168.1.37	Channel Status	7000	7600	7600		7000	7600	7900	70.0			
[192.168.1.108]	VOIP Status											
	Network Status											
	Errors											

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- From the View menu, select Device Catalog. When a check mark is beside Device Catalog, the catalog is showing. If there is no check mark present, the catalog is hidden.
- Press Ctrl+T on the keyboard. to hide the Device Catalog. Press Ctrl+T on the keyboard again to open the Device Catalog.

# *Use Device Descriptions in the Device Catalog*

Sometimes it is easier to recognize a unique name for a device, rather than its IP Address. You can configure RVONedit to show device descriptions (where available) in the device catalog.

To enable device descriptions in the device catalog, do the following:

- From the Edit menu, select Preferences. or click the preferences icon.
   The Preferences window appears.
- 2. Click the **Catalogs** page.
  - The Catalog page appears.

Preferences	? ×
Catalog Devices Channels Directories	
Catalog Preferences          Image: Use description instead of IP address if available         Image: Show All Devices         Image: Show By Device Type	
OK Ca	ancel

- 3. Select the Use description instead of IP address if available check box.
- 4. Click OK.

# How to Show/Hide the SNMP Configuration Information

If you are currently not using SNMP in your Intercom System, you may choose to hide the SNMP configuration area in the Device Configuration and Status section of the application.

To hide SNMP configuration information, do the following:

- From the Edit menu, select Preferences or click the preferences icon. The Preferences window appears.
- 2. Click the **Devices** page. *The Devices page appears*.

Preferenc	es				<u>? ×</u>
Catalog	Devices	Channels	Directories	1	
Device	e Preferen	ces			
	Auto-conn	ect when c	hanging devi	tes	
	Hide SNMP	configurat	ion		
□ [	Hide Authe	entication t	able		
				ОК	Cancel

- 3. Select the Hide SNMP Configuration check box.
- 4. Click OK.

# How to Show/Hide the Authentication Table

If you are currently not using Authentication in your Intercom Systems, you may choose to hide the Authentication table in the Device Configuration and Status section of the application.

To hide the authentication table, do the following:

- **1.** From the Edit menu, select **Preferences** or click the **preferences** icon. *The Preferences window appears*.
- 2. Click the **Devices** page. *The Devices page appears*.



- 3. Select the Hide Authentication table check box.
- 4. Click OK.
### *How to Enable/Disable "Auto-connect the application when changing devices"*

The **Auto-connect the application when changing devices** is a useful setting when you are viewing multiple devices in a session. When enabled, devices automatically connect to RVONedit when selected. This way, you do not have to manually connect the device.

To enable/disable auto-connect the application when changing devices option, do the following:

- From the Edit menu, select Preferences or click the preferences icon.
   *The Preferences window appears.*
- 2. Click the **Devices** page. *The Devices page appears*.

Preferences	? ×
Catalog Devices Channels Directories	
Device Preferences           Auto-connect when changing devices           Hide SNMP configuration           Hide Authentication table	
OK Ca	ancel

- **3.** Select the **Auto-connect the application when changing devices** check box to enable. Or, clear the check box to disable the option.
- 4. When finished, click **OK**. Otherwise, click **Cancel**.

### How to Save a Configuration File

Once you have made changes to a device's configuration (both device and channel), save the configuration file for later use or to compare with later configuration files.

**NOTE:** Setup files are stored in XML (extensible markup language) format, which makes them viewable and modifiable in a standard text editor (Notepad, MS<sup>®</sup> Word, etc.) and are viewable in a web browser. The Authentication Table, if saved, is stored in an encrypted format, so a text editor cannot edit it.

To save configuration files, do the following:



- 2. Click Save.
- **NOTE:** Regardless of where the setup files are stored, RVONedit always stores setup files for each device in a separate sub-directory named using the device's IP Address. This keeps the setup files for each device separate from other devices.



**NOTE:** When saving a setup file, RVONedit does not include the configuration items the device is not capable of supporting (for example, SNMP, Pass-Through, or GPIO information). Also, it does not save the SNMP or Authentication Table unless the current user has admin rights and the preferences to hide these areas is not enabled.

#### How to Load a File

**Load File** can be used to preview (and modify) items in a file. Loading a setup file is similar to opening a setup file. For the differences between File|Open and File|Load, see page 86.

To load a setup file, do the following:

- From the File menu, select Load... or click the load icon. The Load window appears.
- 2. Navigate to the file you want to load.
- **3.** Click **Open**. *The file loads on top of the current configuration.* 
  - **NOTE:** When a file is loaded, the file overlays current device configurations. You can modify the loaded file to suit your needs. Once done making changes (if applicable) to the loaded file, you need to send changes to the device.
- From the Changes menu, select Send (F10) or click the send changes icon. OR

Save the configuration file.

### How to Add/Remove a User Profile To/From the Authentication Table

**NOTE:** To setup user profiles, you must have 'Admin' rights. For more information, see "Authentication Information Section" on page 23. Also, you cannot have Hide Authentication Table enabled.

#### To add user profile to the authentication table, do the following:

- 1. In the Device Configuration section, scroll to the Authentication Information area.
- 2. Click Add.
  - The User Name field becomes active and the table line is highlighted in yellow.
- 3. In the User Name field, enter a user name for the new profile (up to 40 characters long).

uthentication Info	rmation						
User Name	Password	Admin	Read	Write	Telnet	Download	Add
telex	•••••	•	•	<b>V</b>	<b>V</b>	<b>V</b>	
admin	•••••	~	~	~	~	<b>V</b>	Remove
Super User	•••••						
	_						
1							

- 4. Double-click the **Password** field to make it active.
- 5. Enter a **password** (up to 40 characters).
- 6. Select the Access Rights check boxes you want for this profile.
- 7. Send or Save your changes.

To remove a user profile from the authentication table, do the following:

- 1. Click the **user profile** you want to remove from the authentication table. *The profile is highlighted blue.*
- Click the Remove button. The user profile is removed from the authentication table.
- 3. Send or Save your changes.

### How to Expand/Collapse the Device Configuration Information Areas

Similar to the Channel Grid, you can hide the four (4) areas (individually) of the Device Configuration section of the application.

#### To collapse a section that has been expanded, do the following:

In the Device Configuration section, click the collapse icon in the upper right corner of the section you want to close. The section closes.

----

To Expand a section that has been collapsed, do the following:

In the Device Configuration section, click the expand icon in the upper right corner of the section you want to open. The section opens.

### How to Show/Hide Channel Columns

To show/hide channel grid columns, do the following:

- 1. Right-click the channel column header.
  - A context menu appears.

Channel Configuration	Hide Channel 1						
Channel Description	Clear All Statistics/Counters for Channel 1						
Destination Type	RVON-	т	ear Down	Channel 1			-[
Destination IP Address	192.168.1		ear Down	Channel I			[
Destination Description		C	olumn Size	:			•
Destination Channel	Channel 1		Channel 2	Channel (	Channel •	Channel S	Cha
Destination Channel Description							
Coding Algorithm	G.711µ		G.711µ	G.711µ	G.711µ	G.711µ	G.7
Audio / Packet	10 ms		10 ms	10 ms	10 ms	10 ms	10
VAD State	×		×	×	×	×	
VAD Threshold	-60 dBm		-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60
Channel Input Gain	0 dB		0 dB	0 dB	0 dB	0 dB	0
Channel Output Gain	0 dB		0 dB	0 dB	0 dB	0 dB	0
Channel Status							
VOIP Status							
Network Status							
Errors							

- 2. Select Hide Channel X (X being the channel column you want to hide).
- 3. Repeat steps 1 and 2 until you are finished hiding columns.

To show hidden columns, do the following:

- 1. Right-click the **channel column header** to open.
  - A context menu appears.

Channel Configuration	Channe <sup>12</sup>	Hide Cha		el E Channel	Char				
Channel Description		Show Ch	annel			•	Channel 1		
Destination Type	RV 🗌	Clear All	Statistics/G	Counters fo	or Channel	3	Channel 2		
Destination IP Address			· · ·				All Channels		
Destination Description		Tear Dov	vn Channe	13		T		KP3Z	
Destination Channel	Channi	Column S	iize			► 10	el ( Channel	Chan	
Destination Channel Description									
Coding Algorithm	G.711µ	G.711µ	G.711µ	G.711µ	G.711µ	G.711	μ G.711μ	G.71	
Audio / Packet	10 ms	10 ms	10 ms	10 ms	10 ms	10 ms	10 ms	10 r	
VAD State	×	×	×	×	×	×	×	×	
VAD Threshold	-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60 dBr	m -60 dBm	-60 d	
Channel Input Gain	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 d	
Channel Output Gain	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 d	
Channel Status									
VOIP Status									
Network Status									
Errors									

2. Select Show Channel.

A context menu appears.

3. Select the specific channel you want to open or select All Channels to open all hidden channels.

### How to Undo, Redo, and Abort Changes

#### UNDO

Use Undo to cancel one (1) or more previous changes. There are no limits on the amount of times you can undo changes.

**NOTE:** Every time an abort changes, send changes, or File|Open/Load/Send is performed the undo history is cleared to zero (0) previous actions.

To undo changes, do the following:

1. From the Change menu, select Undo (Ctrl+Z). Or click the Undo icon. *The current action performed in RVONedit is undone.* 

#### REDO

Use **Redo** to revert one (1) or more previous undo actions that you have done. There are no limits on the amount of times you can redo changes.

**NOTE:** Every time an abort changes, send changes, or File|Open/Load/Send is performed, the redo history is cleared to zero (0) previous actions.

To redo actions, do the following:

1. From the Change menu, select **Redo** (Ctrl+Shift+Z). Or, click the **Redo** icon.

#### ABORT

To abort the changes, do the following:

- From the Change menu, select Abort or click the abort icon. A message asking "Are you sure you want to abort all pending changes?" appears.
- Click Yes to accept. Otherwise, click No to do nothing. By clicking Yes, the changes are deleted and the warning message closes. By selecting No, the changes are untouched (and still active to be sent to the device) and the warning message closes.

#### How to change the IP Address, Netmask, and Gateway

#### To change the IP Address, Netmask, and/or Gateway Address for a device, do the following:

- 1. In the Device Configuration and Status section, modify the IP Address, Netmask, and/or the Gateway fields.
- 2. Once finished, Send or Save the changes to the device.

### How to Setup the Pass-Through Port

NOTE: To make changes to the Pass-Through port you must have Write access to make changes to this area.

To setup the pass-through device, do the following:

- In the Device Catalog, select a device. The Device Configuration displays the current configurations for the device.
- 2. In the Tx IP Address field, enter the IP Address to which the device transmits audio.
- 3. From the Baud Rate drop down list, select the **baud rate** at which audio is transmitted.
- 4. Once finished, **Send** or **Save** the channels to the device.

#### How to Setup the GPIO for an RVON-I/O

**NOTE:** The GPIO section only displays if the device has Pass-Through or GPIO capabilities. To make changes to the GPIO you must have Write access to make changes to this area.

To setup the GPIO for an RVON-I/O, do the following:

- In the Device Catalog, select an RVON-I/O. The Device Configuration displays the current configurations for the RVON-I/O device.
- 2. From the Mode drop down list, select the GPIO mode the device will run.
- 3. In the IP Address field, enter the GPIO IP Address (if applicable).
- 4. From the Keypanel drop down list, select the keypanel or port in which all GPIOs are associated.
- 5. Once finished, Send or Save the changes to the channels.

#### *How to Manually Disconnect from RVONedit*

To manually disconnect from RVONedit, do the following:

 From the RVON menu, select Disconnect. The RVON device is disconnected. The green check mark turns to a red X.

OR

From the toolbar, select the **disconnect** icon.  $\stackrel{\text{L*}}{\Longrightarrow}$ 

### How to Open a File

When a file is opened in RVONedit, the application disconnects from the current device (if connected) and reads the setup file. If the file being opened is for a device other than the current device, RVONedit creates the device in the catalog and switches to it.

To open a file, do the following:

- From the File menu, select **Open** or click the **open** icon.
   *The Setup file window appears*.
  - **NOTE:** If a catalog device is currently selected, RVONedit defaults to showing you the files in the subdirectory named for the current devices's IP Address. You can also use the File Open window to navigate to a different location to select a different directory to open.

Open		<u>? ×</u>
Look jn:	: 🔁 SETUPS 💽 🕓 📴 📰 🔹	
Recent Desktop My Documents	□ 10_2_210_161 □ 10_2_210_193	
My Computer My Computer My Network Places	File <u>n</u> ame: Files of <u>type</u> : RVON setup files (*.rvn)	<u>D</u> pen Cancel

- 2. Select the file you want to open in RVONedit and then click **Open**. If the field is for a device other than the current device, RVONedit switches to the new device in the catalog. If the file is for a device that is not in the catalog, RVONedit creates a device in the catalog for the device.
- 3. Make any **modifications** or **changes**.
- 4. Save the setup file. You can also attempt to connect to the device and load the file using Send Changes command.
- **NOTE:** RVONedit does not read the SNMP Configuration or Authentication Table from the file unless you have 'Admin' rights, AND the preference to hide these sections is not enabled.

#### How to Use the Forward and Back button

RVONedit remembers the devices that you view as you use the application (this function can be compared to a web browser's

history). Using the **Go Back** button eo or the **Go Forward** button button , you can back-track or go forward to devices you have already viewed.

### How to Change Devices using the Device Catalog Tree

As with most of the actions in RVONedit, there are many ways to accomplish the same action. Changing devices is no exception. Not only can you use the F3 action, you can simply point and click, as well.

To use the device catalog tree to change devices, do the following:

- In the device catalog, click the device you want to configure or view. *The device configuration and channel configuration for the selected device appears.*
- 2. To move to the device, click the **device** in the catalog.
- **NOTE:** If you do not have the "Auto-connect the application when changing devices" option enabled, you may have to log on to each device when you switch devices. For more information on how to enable this feature, see "How to Enable/Disable "Auto-connect the application when changing devices"" on page 73.

### *How to Change Devices using F3*

RVONedit supports a toggle feature that allows you to toggle between the destination IP Addresses of two (2) connected RVON devices using the F3 function key.

#### To toggle between two (2) devices that share a connection, do the following:

1. While the keyboard focus is on any field containing a destination IP Address, press F3 on the keyboard. *The destination IP Address device becomes active allowing you to make configuration changes, if needed.* 

This action affects the Destination IP Address field in the Channel Configuration Grid and the Tx IP Address field in the Pass-Through and/or GPIO section.

**NOTE:** The destination device must be configured in RVONedit for this feature to work.

### How to Hide Individual Rows in the Channel Configuration Grid

RVONedit supports hiding individual rows within the Channel Configuration Grid. You can easily hide rows of information you do not want to view; leaving only the data you are interested in viewing.

To hide individual rows in the channel configuration grid, do the following:

- 1. Right-click the **row** you want to hide.
  - *A Hide <specified row> row menu item appears.*

		Channel 2	Channe
Channel Configuration			
Channel De	escription		
Destinat	tion Type	RVON-8	RVON
Destination IP	Address	10.2.210.23	
Destinatior	Hide D	estination IP Addi	ress ne
Destination Channel D	Show	Attribute	•
VAD V	00 001		
Channel Ir	nput Gain	0 dB	0 dB
Channel Oul	tput Gain	0 dB	0 dB
Keypanel Polling B	aud Rate	9600	9600
Channel Status			
Connect	ion State	Connected	Idle
Connection	00:13:41	00:00:	
Coding Algorithm	G.711µ	-	
Audio / Packel	30 ms	-	
VAD State	e (actual)	×	-
Connection	Attompto	2	

- Select the Hide <specified row> row menu item. The row is hidden.
- 3. Repeat steps 1 and 2 until you have hidden all the rows you want.

To show all the rows you have hidden, do the following:

1. Right-click the **area where the rows are hidden** and then select **Show Attribute**. *The hidden rows menu appears*.

			_		
	Channel 2	Channel 3		Channel 4	
Channel Configuration					
Channel Des	cription				
Destinati	т		-	RVON-8	RVON-IO
Destination IP	Hide L	Destination Type		-	-
Destination	Show Attribute			Destination	Description
Destination Channel Des	cription			Coding Alg	orithm
VAD Th	reshold	-60 dBm	Π	Audio / Pao	:ket
Channel Inp	ut Gain	0 dB		VAD State	
Channel Outp	0 dB		Keypanel Polling ID		
Keypanel Polling Bau	9600		All Attributes		
Channel Status			-		
	<i>C</i> 1 1		_	× 11	* 11

2. You can either select individual rows to show or select All Attributes to restore all of the rows.

### How to Tear Down a Channel

The **Tear Down a Channel** feature is used to reset a channel without rebooting the entire device. When a tear down is performed the device disconnects the audio channel and then reconnects the channel.

To tear down a channel, do the following:

- 1. In the Channel Configuration Grid, right-click a **channel column header**. *A context menu appears*.
- 2. From the context menu, select **Tear Down Channel X** (*X being the channel. For example, Channel 1, Channel 2, etc.*).

	Channel 1		Channel	Channel (	Channel (	Channel 5	Cha
Channel Configuration		Hide Channel 1					
Channel Description		Clear All Statistics/Counters for Channel 1					
Destination Type	RVON-		ear Down -	Channel 1			-[
Destination IP Address	192.168.1		ear Down	Channel I			_[
Destination Description		0	olumn Size				•
Destination Channel	Channel 1	l	Channel 2	Channel (	Channel	Channel S	Cha
Destination Channel Description							
Coding Algorithm	G.711µ		G.711µ	G.711µ	G.711µ	G.711µ	G.7
Audio / Packet	10 ms		10 ms	10 ms	10 ms	10 ms	10
VAD State	×		×	×	×	×	
VAD Threshold	-60 dBm		-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60
Channel Input Gain	0 dB		0 dB	0 dB	0 dB	0 dB	0
Channel Output Gain	0 dB		0 dB	0 dB	0 dB	0 dB	0
Channel Status							
VOIP Status							
Network Status							
Errors							

### How to Set the Column Size in the Channel Configuration Grid

To set the column size, you must have the *Allow column width adjustments* check box selected. You can find this option on the Channels page of the preferences window (*Edit*|*Preferences*).

Preferences	? ×
Catalog Devices Channels Directories	
Channel Preferences          Allow row height adjustments         Allow column width adjustments         Hide RVON-1 aux channel	
OK Ca	ncel

To set the column size, do the following:

1. Right-click the **column header** where you want to size and then click **Column Size**. *The column size options menu appears*.

	Chappel 3		Channel 3	Channel 4	Ch	annel 5	Channel 6	Channel 7		
	H	Hide (	Channel 2							
on		5how	Channel		•					
ре	🗌 R) 🔤	-1			-	RVON-8	RVON-8	RVON-8		
ss	10.2.:	Clear	All Statistics/Cour	nters for Channel	2	-	-	-		
hel	Char 1	Tear I	Down Channel 2			annel 1	Channel 1	Channel 1		
on										
bld	-60	Colum	nn Size		Auto-size this column					
ain	0 dB		0 dB	0 dB		Auto-size all columns Auto-fit all columns to window size				
ain	0 dB		0 dB	0 dB			olumns to this size			
ate	9600		9600 9600			2000	2000	,,000		
ate	Connected Idle Idle			Idle	Idle	Idle				
on	00:19:53	3	00:00:00	00:00:00	00	0:00:00	00:00:00	00:00:00		
al)	G.711µ		-	-		-	-	-		

2. Choose one (1) of the four (4) column sizing options:

Auto-size this column -	The column is resized to fit the text in the column.
Auto-size all columns -	All columns are resized to fit the text in each column.
Auto-fit all columns to fit window size -	The columns are adjusted to fit all columns within the Channel Configuration window.
Set all columns to this size -	After manually resizing a column, you can select this option to make all the columns the same size based upon the selected column.

**NOTE:** As always, you can manually adjust individual columns. Click and drag the outside edge of the column you want to resize.

## How to Set a Default Folder in RVONedit

Using the Directories page in the Preferences window (*Edit*|*Preferences*), you can change the folder used to store different RVONedit files, such as Setups, Authentication, and Firmware files.

#### To change the default folder for RVONedit, do the following:

1. From the Edit menu, select **Preferences**. *The Preferences window appears*.

Preferenc	es	<u>?</u> ×
Catalog	Devices Channels Directories	
<u>ا</u> د	og Preferences Use description instead of IP address if available Show All Devices Show By Device Type	
	OK Can	

**NOTE:** You can also click the **preferences** icon.

2. Select Directories.

Preferences	? ×
Catalog Devices Channels Directories	
Default Directories	
Device Catalog (.RVC):	
C:\Telex\RVONedit\CATALOG	
Device Setup Files (.RVN):	
C:\Telex\RVONedit\SETUPS	
Firmware Files (.BIB):	
C:\Telex\RVONedit\FIRMWARE	
OK Cance	3

- In one of the file fields (Device Catalog, Device Setup Files or Firmware Files), enter the file path where you want to save each type of file. You can also use the browse button is to navigate to the folder.
- 4. Once you are finished, click **OK**.

### What is the Difference Between File|Open and File|Load?

While primarily the same, there are distinct differences between File|Open and File|Load.

#### File|Open

- If the application is connected to a device when File|Open is performed, it automatically disconnects when the file is opened.
- If a catalog device is currently selected when the File|Open is performed, RVONedit disconnects (if connected) from the current device and reads the file.
- If the file that is opened is for a different device, RVONedit switches to the new device in the catalog. If the new device is not in the catalog, it creates the device with the file parameters.

After a file has been opened, you can view/modify the configuration settings. You can save the changes to the existing file or create a new setup file by performing a File|Save. You can also connect to the device and Send the changes to the device.

#### File|Load

- The application is not disconnected from the current device (if connected).
- The setup file may contain information for a device other than the device you are currently viewing. RVONedit does not switch to the new device.
- The items in the setup file are overlaid on the current device and marked as changed when they are read.

After a file has been loaded, you can modify the file before you sent it to the device using the Send Changes command.

**NOTE:** Partial loads and partial saves are not supported in RVONedit. This means that all information in a setup file that can be loaded is loaded.

### How to Manually Connect an RVONedit device

To manually connect an RVONedit device, do the following:

1. Highlight the **RVON device** with which you want to connect. *Notice the RVON device has a red X signifying that it is not connected.* 



2. From the RVON menu, select Connect.

The red X changes to a green 4. If the device does not have any logons associated with it, it automatically connects. Otherwise, a logon window appears, prompting you for a user name and password.



### How to Update Older Version RVON Devices Using RVONedit

In RVONedit you can add an RVON device that does not have the required firmware installed, but not be connected to it (the device icon is dimmed). But, if the device is running a lower version firmware (as noted below), you can update to the required firmware version.

#### To update older version RVON devices, do the following:

FIRMWARE	VERSION
RVON-8	V 1.2.0 or higher
RVON-Keypanel	V 1.1.0 or higher
RVON-I/O	V 1.0 or higher
RVON-C	V 1.0 or higher
RVON-16	V 2.0.0 or higher

- 1. From the RVON menu, select Add. *The Add devices window appears.*
- 2. Click the Add page.
- 3. In the IP Address, enter the IP Address of the RVON device without the required firmware.
- 4. From the Device Type drop down list, select the type of device it is (for example, RVON-8).
- 5. Click Add.

The RVON device is added to the catalog, but the RVON device is dimmed, which means that RVONedit cannot talk with the device.

- 6. Select/highlight the **RVON device** you just added.
- 7. From the RVON menu, select **Download Firmware**. *The Download Firmware window appears*.
- 8. From the Device Type drop down list, select the **type of device** you want to download the firmware (for example, RVON-8).

D	Download Firmware						
	Select Device Type:	RVON-8	<b>_</b>		Change User		
Select Devices to Download:							
	IP Address	Description	Firmware Version	Status			
	10.2.210.21	slot 1	ADAM RVON-8 Card, Version 2.0.0, Nov 10 2006				
	10.2.210.28	slot 8	ADAM RVON-8 Card, Version 2.0.0, Nov 10 2006				
	10.2.210.34	slot 14	ADAM RVON-8 Card, Version 2.0.0, Nov 10 2006				
	ļ						
Select Firmware File:							
	ļ				<u> </u>		
	Auto-close after successful download     Begin				Cancel		

9. From the Select Device to Download list, select the device to which you want to upload the firmware.

**NOTE:** You can update more than one (1) device at a time by doing the following:

- To select a block of devices, select (highlight) the top device, press and hold **Ctrl+Shift**, and then scroll and select the last device in the block you want. *All of the devices are selected*.
- To select multiple devices that are not in a block, press and hold the Ctrl key, then select the devices one-by-one you want to add to RVONedit.
- 10. In the Select Firmware File: field, enter the path to the firmware update, or use the browse button.
- **11.** Select the **Auto-close after successful download** check box, if you want to close the Download Firmware window immediately after a successful download.
- **12.** Click **Begin**. *The download begins*.
- **NOTE:** This may take a few minutes. You can watch the download and upgrade of the RVON device download status bar.

### How to Open the Manage Logins Window

The Manage Login window can be accessed in one (1) of three (3) different ways:

For one (1) device

For all devices

For all devices of a certain device type

#### To open the manage logins window for one (1) RVON device, do the following:

1. In the Device Catalog, right-click an **RVON device**. *A popup menu appears*.

: :	/ 168 1 1931				
[192.168.1.193]					
slot 3					
slot					
192.	Download Firmware				
	Remove from Catalog				
KP					
By Dev	Manage Logins				
🕂 🕂 RV	Open in a New Window				
RVON-1					
🖽 🎹 RVON-IO					
🗈 🎆 RVON-C					
🗈 🇱 RVON-16					

2. From the popup menu, select Manage Logins. The Manage Logins window appears with the selected RVON device listed.

To open the manage logins window for all RVON devices, do the following:

1. From the application menu bar, select **RVON**. *The RVON menu appears*.



2. From the RVON menu, select Manage Logins. The Manage Logins window appears with every RVON device listed.

**NOTE:** You can also:

- Right-click the **All Devices** icon in the Device Catalog. The Manage Logins window appears with all of the RVON devices listed in the order in which they were added to the application.
- Right-click the **By Device Type** icon in the Device Catalog. *The Manage Logins window appears with all of the RVON devices listed by the device type.*

#### To open the manage logins window for one RVON device type, do the following:

- In the Device Catalog, expand the By Device Type icon. The By Device Type navigation opens.
- 2. Right-click the **device type icon** for which you want to manage logins. *A popup menu appears*.



#### Select Manage Logins.

The Manage Logins window appears with only the devices for the device type you selected.

Notes:

# **Bosch Security Systems, Inc.**

12000 Portland Avenue South Burnsville, MN 55337 U.S.A. www.boschcommunications.com