RF IDEAS

pcProx® Sonar

Configuration Utility User Manual

99009040B

Thank You!

Congratulations on the purchase of your pcProx Sonar. RF IDeas hopes you enjoy using the new USB presence detector as much as we enjoyed creating and developing it. Please share your comments and suggestions for our future solutions.

If you are interested in our OEM or Independent Developer's Programs, please call us.

Thank you,
The RF IDeas Staff

Need Assistance?

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Contents

2 Chapter 1: pcProx Sonar Basics
2 Thank You!
6 Understanding Proximity
6 What is Sonar Proximity Detection?
6 Why is it necessary?
6 How does the pcProx Sonar work?
6 What is included with the pcProx Sonar?

7 Chapter 2: Installation
7 Hardware installation
7 Mounting the pcProx Sonar
7 LED Status
8 Software Instatllation

11 Chapter 3: Configuration and Setup
11 pcProx Sonar configuration
11 About tab
12 Initial setup tab
13 Timing Delays
14 Disable LED
14 Developer Mode
15 Quick Configurations
16 Walk-Away keystrokes tab
17 Walk-Up keystrokes tab
18 The file menu
19 Saving Specific Configurations
20 Associate an .SNR File
21 The Help Menu
22 Appendix

24 Chapter 4: Tips and Troubleshooting
24 Troubleshooting
24 No pcProx USB Device Attached
24 Rebooting your Workstation

25 Index

26 Glossary

27 Other Products and Accessories

pcProx Sonar Basics 1

Understanding Proximity

What is Sonar Proximity Detection?

This ultra-sonic proximity detector functions as a USB keyboard. The pcProx Sonar detects when a user steps away from an unlocked workstation and enters keystrokes to lock or log off the session. This provides a hands-free way to lock the workstation.
When a user returns, the pcProx Sonar detects their presence and enters keystrokes to unlock the workstation.

Why is it Necessary?

With the proliferation of identity theft there is an increase and need for workstation security. There are two primary requirements for workstation access control to be effective:

1. Unlock a locked station (log on), and
2. Lock or close the open session when the user steps away.

The first is easiest to solve. Many companies solve the second issue by either developing a company policy requiring the user to lock the workstation or rely on a time-out screen saver. Time-outs are often set too long and create a security risk or set to short and become a nuisance. The AIR ID® proximity detector is a great asset to any organization to provide hands-free security. The AIR ID eliminates the need for manual entry, providing error-free identification.

How Does the pcProx Sonar Work?

The workstation recognizes the pcProx Sonar as an attached USB keyboard. The pcProx Sonar uses ultra-sonic proximity detection and then sends programmable keystrokes to lock and unlock the workstation based on the configuration.
For example, Windows XP users press 'CTL-ALT-DEL' or GUI 'L' to lock the workstation. The pcProx Sonar automatically sends those keystrokes to the workstation.

What is Included with the pcProx Sonar?

- pcProx Sonar Device
- pcProx Sonar Configuration Application for Windows® 2000/XP/Vista/Windows 7
- pcProx Sonar User Manual link

	Minimum System Requirements
HARDWARE	Pentium Class Computer CD ROM Drive
DISK	200K free disk space
I/O	Open USB port
OS (HARDWARE USE)	Any operating system that supports a USB keyboard including Microsoft Windows 2000, XP, Vista, Windows 7, Linux, Mac
COMPUTER SOFTWARE	Windows 2000, XP, Vista or Windows 7

Installation 2

Hardware Installation

Plug the USB connector into any available USB port.

Mount the pcProx Sonar

RF IDeas recommends mounting the pcProx Sonar on the center top or side of the monitor, pointing straight forward. Some monitors may require adjustments to the monitor pedestal also. RF IDeas has adjustable angle brackets (Part number BKT - ANGLE) for these models. Use the provided foam tape to fix the pcProx Sonar to the monitor as shown.

LED Status

When the pcProx Sonar is connected and recognized, Windows loads the appropriate USB keyboard drivers. In the event that these drivers are not already installed, these drivers can be loaded using the Operating System CD. Follow the instructions on the CD to install the appropriate drivers.

The Light Emitting Diode (LED) lights when the device is recognized by the workstation. Restart the workstation if the LED does not light after a minute.

The LED indicates three pcProx Sonar stages.

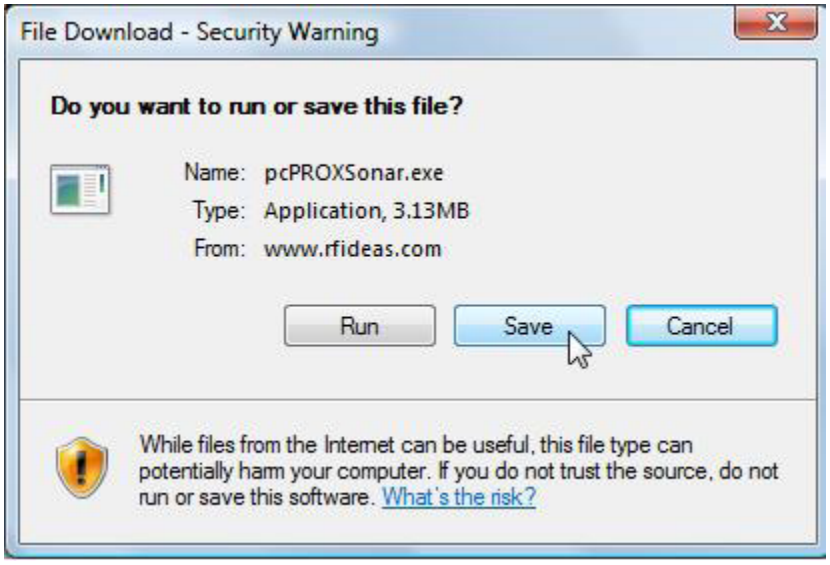
	LED Status of the Walk-Away Event
Green	User detected within the 'Detection Distance' configuration range.
Yellow	User leaves 'Detection Distance' range. The 'Walk-Away' delay timer is counting down.
Red	User leaves 'Detection Distance' range. The pcProx Sonar sends 'Walk-Away' key sequence.

Install the pcProx Sonar installation program to the Desktop for quick access. This installer is digitally signed by RF IDeas to authenticate file integrity for your safety.

Open the www.RFIDeas.com web site and click **Support** ⇨ **Software**.

Click **pcProxSonar.exe** to download the installation application. Use this icon on the Desktop to open the installation program to configure the pcProx Sonar once the software is installed.

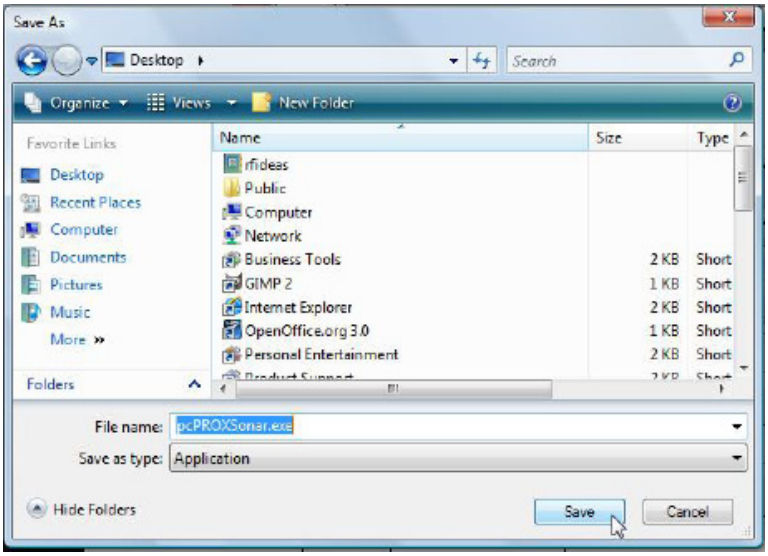
The File Download – Security Warning window displays.



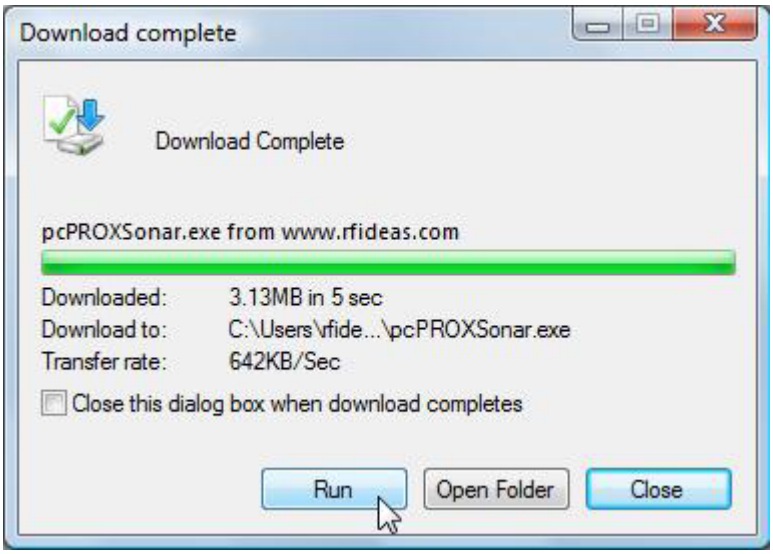
Click **Save** in the File Download – Security Warning window to save the installation program to the Desktop.

NOTE: The browser can be closed as the configuration software can be run from the location it was saved.

Select the location to save the pcProx Sonar configuration application.



The configuration software downloads to the appropriate location.



Click **Run** in the Download Complete window to open the configuration software and begin configuring the device.

Follow the InstallShield Wizard prompts to install the configuration software.

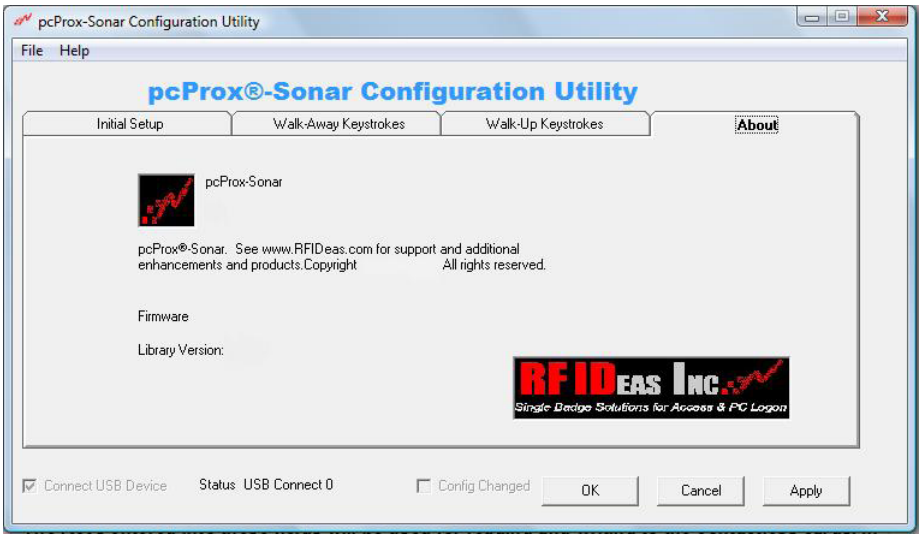
If you are installing an upgrade, click **Remove** to delete the old configuration software before installing the upgrade.

NOTE: Use 'Control Panel' ⇨ 'Add/Remove Programs' to successfully remove the setup program if there is a problem with installation of an upgrade. Reboot and then reinstall the pcProx Sonar Configuration program.

pcProx Sonar Configuration

About Tab

This tab displays the copyright, firmware and library version of the configuration application.



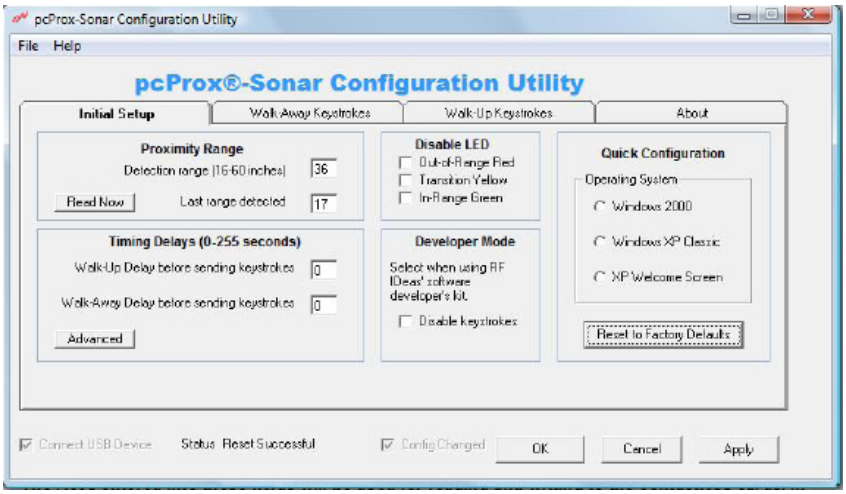
The table below explains items displayed on the bottom of each window of the configuration application.

Function	Description
Connect USB Device	The pcProx Sonar is attached when this box is checked.
Status	Status and error messages display here.
Config Changed	This box is checked as a reminder to click 'Apply' to write the updated configuration settings to the pcProx Sonar.
OK	Click to accept all changes and close the application.
Cancel	Click to cancel any changes made to the configuration settings.
Apply	Click to apply the configuration settings to the attached pcProx Sonar.

Initial Setup Tab

This tab configures the pcProx Sonar's basic range, timing, and LED status parameters. It detects people and any objects that are in the proximity range. Large objects, such as high backed chairs or large boxes in the work area are viewed by the pcProx Sonar as a person. It may be necessary to reduce the 'Detectable Distance' and raise the angle for proper performance based on the furniture configuration of the office, kiosk, or workstation.

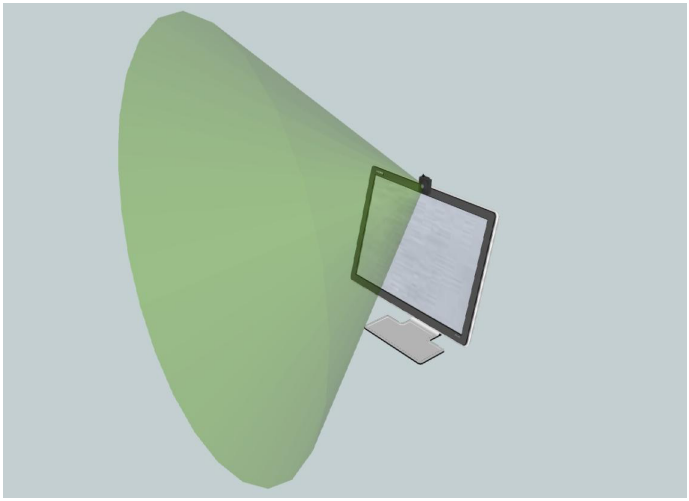
The pcProx Sonar reliably detects objects outside the minimum detectable distance of 16". Move the pcProx Sonar farther away if too many users approach the workstation within this minimum distance.



Function	Description
Detection range (16-60 inches)	Enter the number of inches to detect a user between 16 in & 60 in from the pcProx Sonar. The beam angle of the pcProx Sonar is approximately 60 degrees. The default is 36 in.
Read Now	Click to display the current detected distance of the user.
Last range detected	Displays current distance the closest object was read. The pcProx Sonar will not read distances less than 16".

Move around the normal work zone to see how the LED remains **green**. The LED should turn **red** when leaving this zone. Enter and exit the normal work zone and see the LED change from **green** to **red** when leaving and from **red** back to **green** when re-entering.

Lower the 'Detection Range' to the lowest number that allows the user to be detected. Click **Apply** to change the detection range. Repeat until the Sonar is properly mounted. If there are any 'Walk-Up' or 'Walk Away' delays set, the LED turns **yellow** before changing to the red or green state.



NOTE: To use the pcProx Sonar in a kiosk or standing workstation where more than one user logs on, set the shortest delay possible to assure it locks immediately after each user walks away.

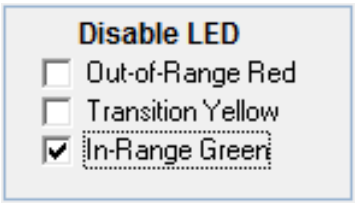
Timing Delays

The pcProx Sonar has programmable delays to suppress immediately sending the key sequences. This is especially useful in a private office setting where a user could leave the workstation briefly yet not want to lock the workstation immediately. The pcProx Sonar has separate delays to handle both 'Walk-Up' and 'Walk-Away' events.

Function	Description
Walk-Up Delay Before Sending Keystrokes	Enter the number of seconds to adjust the 'Walk-Up' delay. Watch the LED settings to test these settings. When the LED is **yellow**, the pcProx Sonar is in the delay mode.
Walk-Away Delay Before Sending Keystrokes	Enter the number of seconds to adjust the 'Walk-Away' delay. Watch the LED settings to test these settings.
Advanced – Power-Up Delay	The default is '0'. Change this if the workstation exhibits a continual power up recycle with the pcProx Sonar attached.

Disable LED

Some users prefer to turn off the LEDs. Check any of these to disable the specific LED state.



Function	Description
Out-of-Range Red	No user is in the 'Detection Range' setting.
Transition Yellow	The user has left the 'Detection range' setting. The 'Walk-Away' or 'Walk-Up' delay timer is counting.
In-Range Green	A user is detected within the 'Distance' setting.

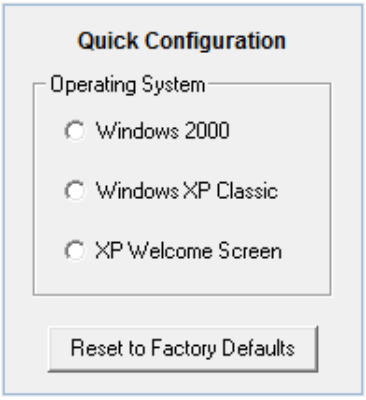
Developer Mode

Check this to use the Software Developer's Kit (SDK) to configure the pcProx Sonar. This allows the pcProx Sonar to be configured with a user created software application. This prevents keystrokes being sent to the active window/application while configuring and testing the pcProx Sonar.

Quick Configurations

Use the Quick Configuration Settings to quickly configure the pcProx Sonar with the appropriate operating system.

Select the appropriate radio button to configure the walk away keystrokes to lock the workstation. The specific key combinations to lock the workstation are different for each operating system and will display on the Walk-Away tab.



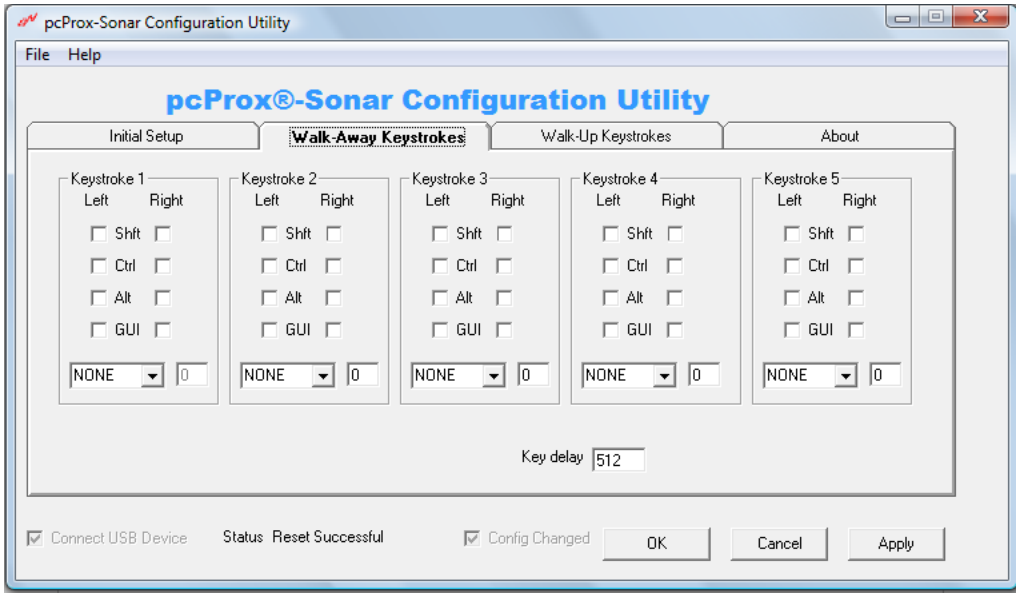
Click **Reset to Factory Defaults** to reconfigure the pcProx Sonar back to the factory defaults.

Walk-Away Keystrokes Tab

The pcProx Sonar detects two events:

1. When the user walks away from the workstation
2. When the user returns to the workstation

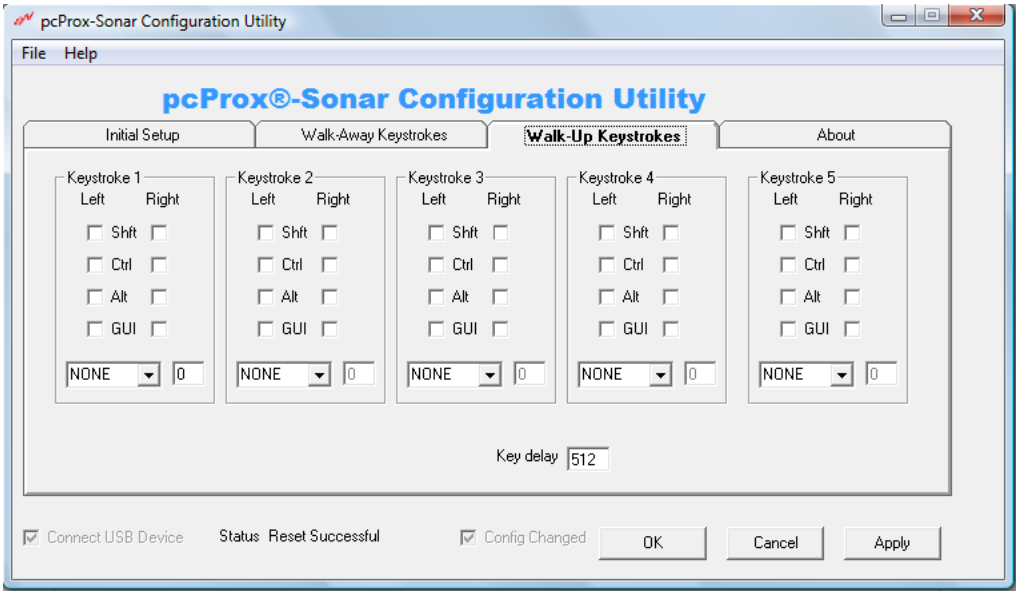
For example, under Windows XP, GUI 'L' (keystroke 1), locks the workstation. The pcProx Sonar sends the keystrokes saved to the device. Keystrokes can be up to 5 characters long. Each of these characters can be combined with shift modifiers such as 'ALT', 'CTL', 'Shift', 'GUI' or Windows key.



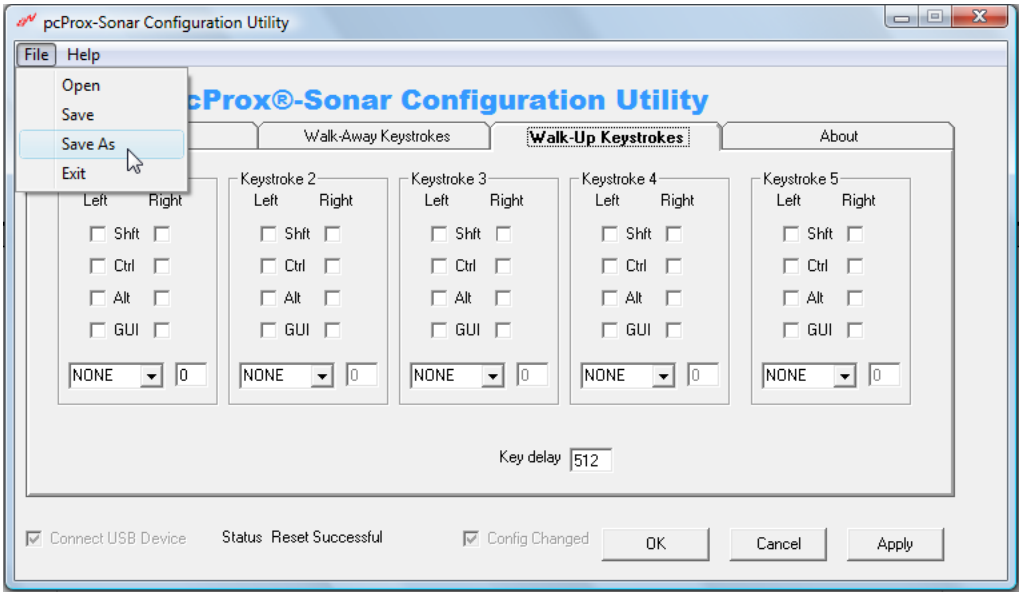
Function	Description
Keystroke 1	Configure each keystroke the pcProx Sonar sends to the workstation when the user walks away.
Keystroke 2	
Keystroke 3	
Keystroke 4	
Keystroke 5	
Key Delay	Enter the delay between each keystroke in milliseconds. The default is 512. The minimum is 64. The maximum is 16,320. We recommend the default setting of 512.

Use this to set keystrokes to display the log on dialog box. This is particularly useful for biometric or other log on applications.

The pcProx Sonar sends a series of keystrokes up to 5 characters. Each of these characters can be combined with shift modifiers such as 'ALT', 'CTL', 'Shift', 'GUI', or Windows key.



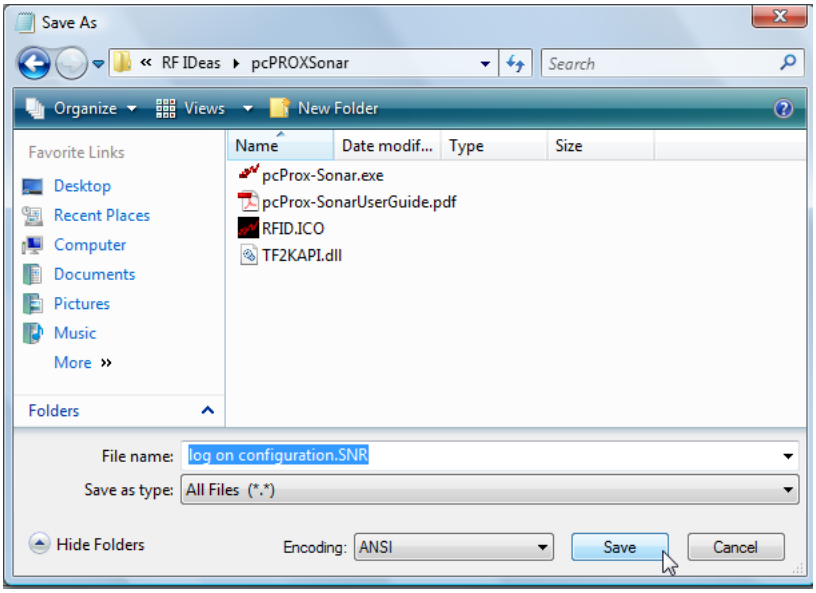
Function	Description
Keystroke 1	Each keystroke that the pcProx Sonar sends to the workstation can be individually identified when the user walks toward the workstation.
Keystroke 2	
Keystroke 3	
Keystroke 4	
Keystroke 5	
Key Delay	Enter the delay between each keystroke in milliseconds. The default is 512. The minimum is 64. The maximum is 16,320. We recommend the default setting of 512.



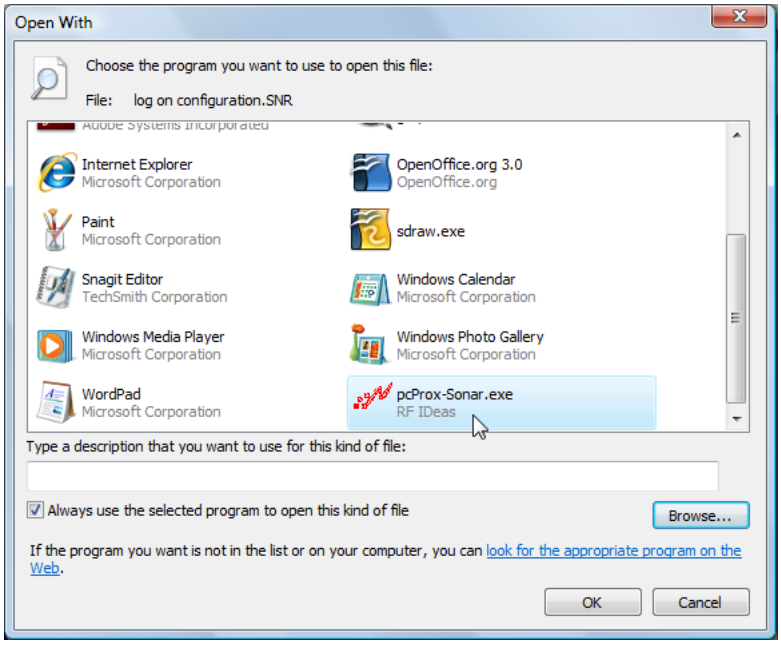
Function	Description
Open	Select to retrieve a previously saved *.SNR configuration file. The .SNR file is useful when more than one configuration template is needed.
Save	Select to save the configuration settings to an *.SNR file.
Save As	Select to save the configuration settings to a specific *.SNR file.
Exit	Select to exit the configuration application.

Save a Specific Configuration

After making the appropriate configuration settings, click **File** ⇨ **Save As** to save the settings to a *.SNR file for future reference. This is useful to quickly re-configure a pcProx Sonar.

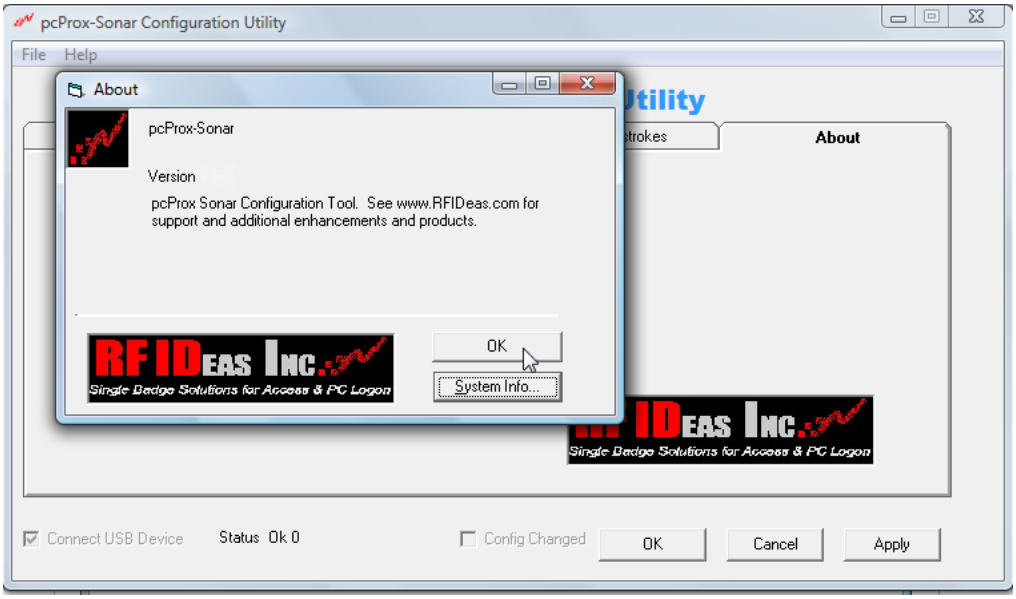


Highlight the *.SNR file. Right-click **Open** ⇨ **Browse** and select the pcProx Sonar.exe file to open this *.SNR file.



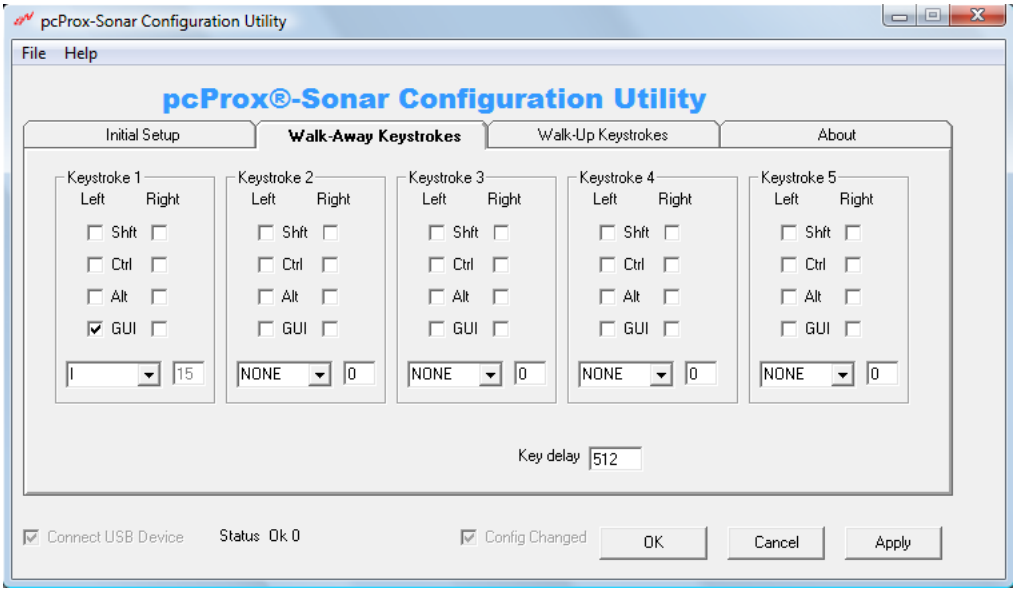
NOTE: The *.SNR file can also be opened using **File** ⇨ **Open** in the pcProx Sonar utility.

Click **Help** ⇨ **About** to display the software and firmware version.



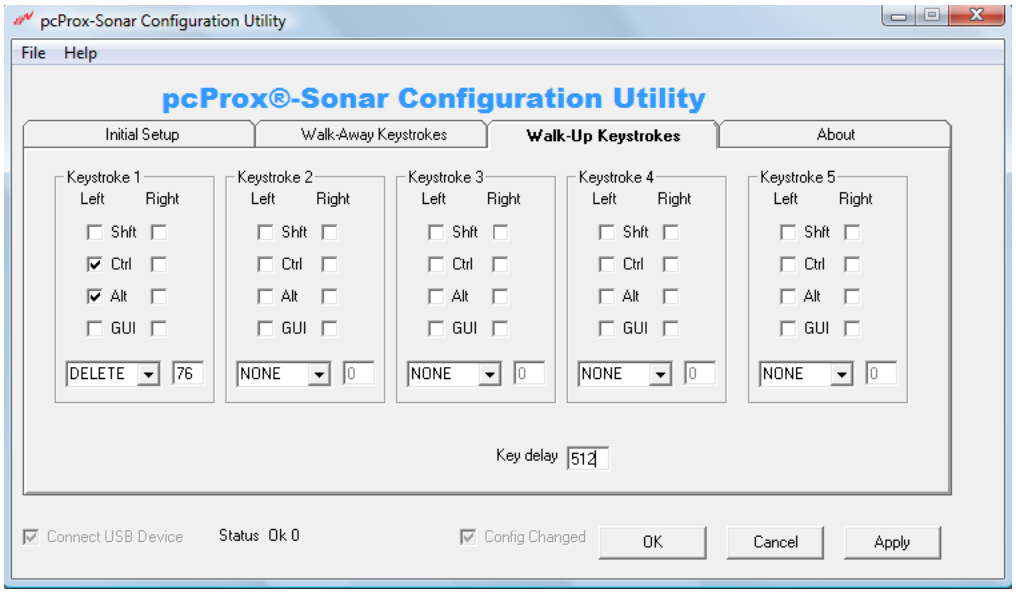
Configure the pcProx Sonar to lock the workstation when the user leaves:
Use GUI or Windows key + L to lock a workstation using Windows XP.

Function	Description
Keystroke 1	
GUI	Check: **GUI**
Select	Use **GUI or L** windows key + L to lock a workstation using Windows XP
Apply	Click **Apply** to save this walk away configuration setting. to the pcProx Sonar



Use Ctrl + Alt + Delete to bring up the dialog box to enter the password.

Function	Description
Keystroke 1	
	Check: •**Ctrl** •**Alt** Select **DELETE** from the drop down list
Apply	Click **Apply** to save this walk up configuration setting to the pcProx Sonar



When the user walks away, the pcProx Sonar sends these keystrokes to lock the workstation.

Tips and Troubleshooting

4

Troubleshooting

If the pcProx Sonar is not working follow these steps:

No pcProx USB Device Attached

- Check to be sure the pcProx Sonar is plugged into the USB port. When the workstation is on and no presence is detected the device LED is **red**.
- Unplug the pcProx Sonar. Use **Control Panel ⇨ Add/Remove Programs** to successfully remove the setup program if there is a problem with installation. Reboot, reinstall the program and connect the pcProx Sonar to the appropriate USB port.

Rebooting your workstation

- If the workstation exhibits a continual power recycle and the pcProx Sonar does not respond, change the Advanced – Power -Up Delay setting on the Initial Setup tab.

Index

A

Advanced Power Up Delay 14, 24
AIR ID 6, 27
Angle Brackets 7
ASCII 26, 27

B

Basic Range 12
Beam Angle 12

C

Configuration 8-11, 15, 22-23
Control Panel 10, 24

D

Dectection Distance 7, 12
Detection Range 12, 13-14
Disable Keystrokes 14
Disable LED (See LED)
Distance Settings 14
Drivers 7

F

Firmware 11, 21
File Download 8

G

Glossary 26

I

In-Range Green 14
Installation 7
InstallShield Wizard 9
Interference 12
Internal Storage 16

K

Kiosk 13

L

Last Range Detected 12
LED 7, 12-13, 26
  Disable LED 14
LED Status Parameters 12
Log-off 6
Log-on 6, 17

M

Maximum Distance 12
Minimum Distance 12

O

Operating System CD 7
Out Of Range Red 14

P

pcProx 27
pcProx Sonar Installation Program 8
Proximity 6
Proximity Range 12

Q

Quick Configuration 15

R

Restore Factory Defaults 15
Requirements 6
Read Now Detection Option 12

S

Save Settings 19
SDK 8, 14, 26, 27
Security Warning 8
Software Developer's Kit 14, 27

T

Timing Delays 13-14
Transition Yellow 14
Troubleshooting 24

U

Upgrade 10
USB 7, 27
USB Connector 7
USB Drivers (See Drivers)

V

Vista, Linux, Macintosh 6
Version 11, 21

W

Walk-Away Event 7, 12-14, 16
Walk-Up Event 12, 14
Windows Driver (See Drivers)
Windows 11, 15-16, 22

Glossary

Term	Definition
ASCII	American Standard Code for Information Exchange
EULA	End User License Agreement
LED	Light Emitting Diode
Milliseconds	One one thousandth of a second. 1000 ms = 1 second
OEM	Original Equipment Manufacturer
SDK	Software Developer Kit
.SNR	File extension used to save pcProx Sonar files to retrieve configuration settings
Ultrasonic	Sound greater than the upper limit of human hearing, pcProx Sonar uses 40khz.

Other Products & Accessories

Software Developer's Kit
Allows independent developer's to use their application to read proximity access badge Read ID data of more than 1 billion cards in the field

PVC Label Proximity Card
Credit card size with paper release liner, 500 cards per box

Complete selection of various manufacturers proximity cards, labels and key fobs. Marked with data code and ID number, available in several Wiegand formats

AIR ID Read/Write Contactless SDK
Reads and writes directly to the smart cards

AIR ID Writer and Playback
Desktop read-only for iCLASS and NXP and smart cards

AIR ID Playback Starter Kit
Plays back card sector data in ASCII or keystrokes

pcProx Sonar
Presence detector configured as a keyboard

PS/2 to USB Power Tap
Powers a USB RF IDeas device from a PS/2 port

Mounting Brackets
Further adjust the standard mounting of the device angle

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