

# ARINAlert Configuration

Desktop Application and Auxiliary Communication Device



# Contact Information and Links

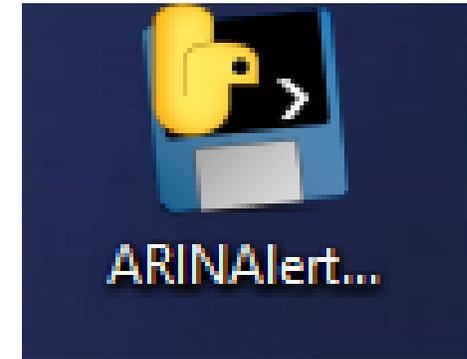
- Web site: [www.arinalert.com](http://www.arinalert.com)
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- Email: [info@arinalert.com](mailto:info@arinalert.com)
- Phone: 724-897-7216



## Components

Both software and hardware components are required to configure ARINAlert devices

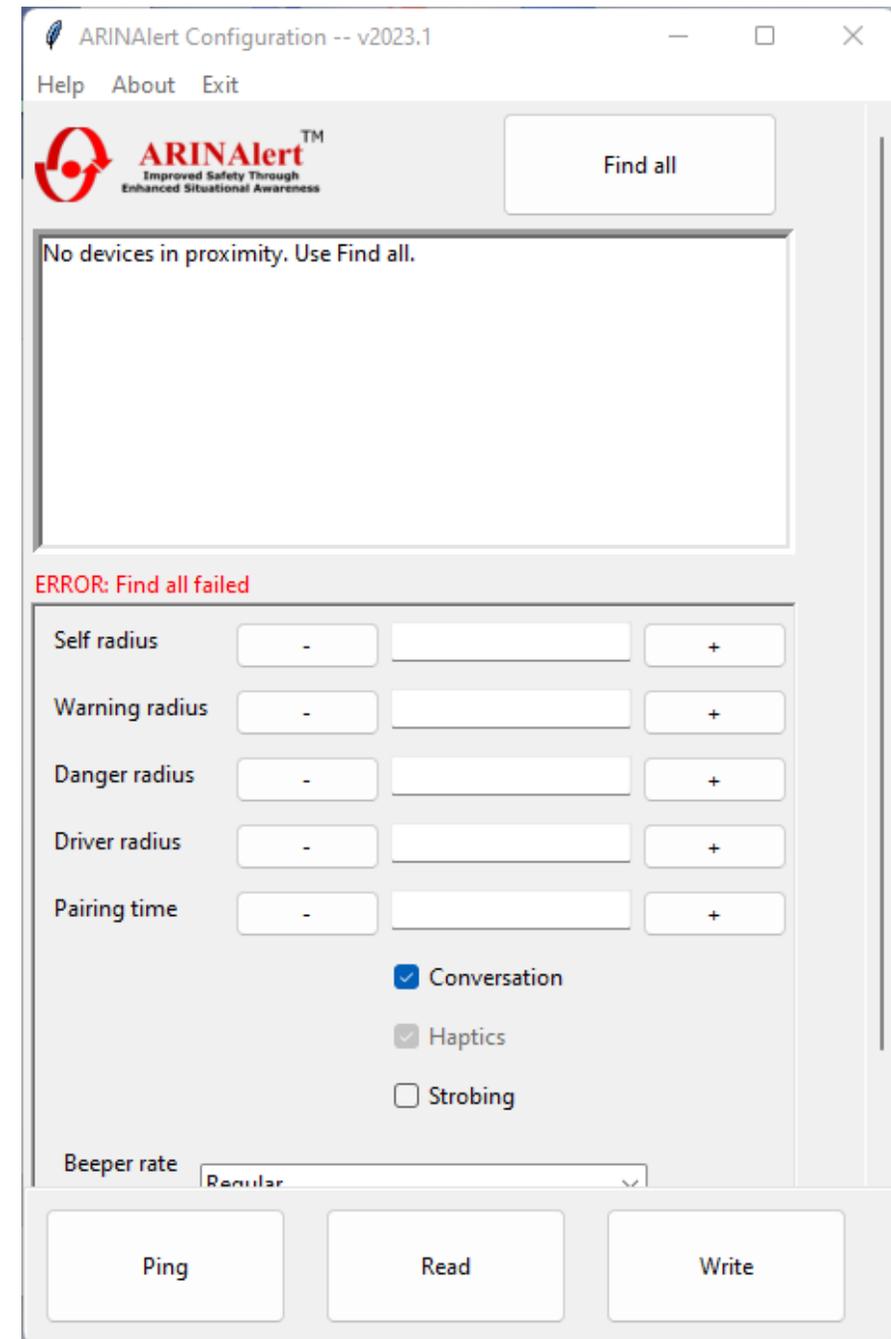
- A Windows executable (ARINAlert-Config) enables your laptop to communicate with an ARIN USB device. It is provided on a flash drive. Drop this onto your desktop or desired folder.
- A USB device reads and writes configurations to ARINAlert devices.
- Micro USB cable connects the device to your laptop.





## Start Up

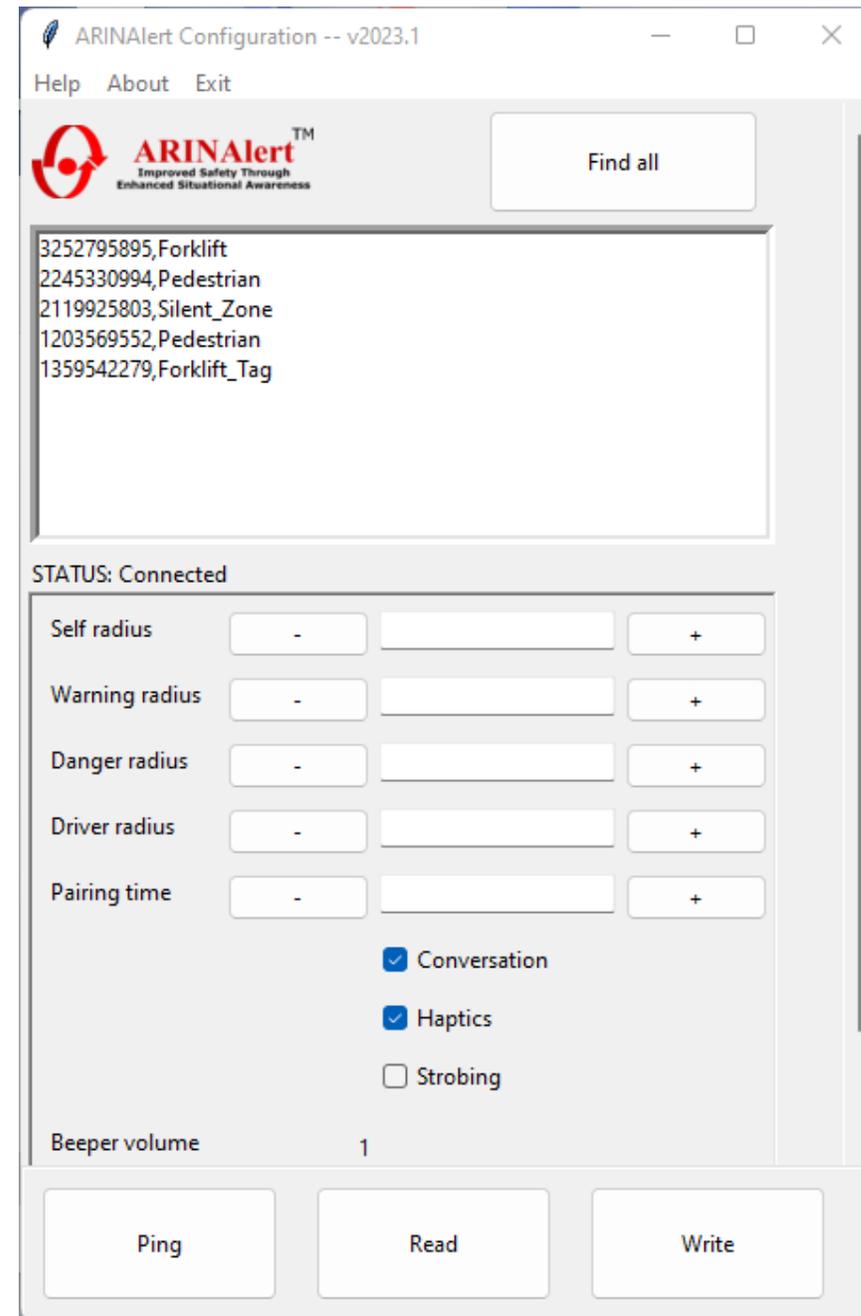
- Plug the USB device into your laptop.
  - Port COM[3-9] is automatically selected.
- Double-click ARINAlert\_Config\_20XX.X.exe
- The program attempts to find all ARINAlert devices in the vicinity. If no powered devices are present or found, an error is generated.





## Finding Devices

- Press the "Find all" button to search for ARINAlert system devices.
- You will see a list of available devices containing a unique ID and the device type.
- Examples shown:
  - Forklift = fork lift truck (receiver)
  - Forklift\_Tag = fork lift truck (transmitter)
  - Pedestrian = pedestrian wearable
  - Silent\_Zone = zone modifier





# Reading a Configuration

- **IMPORTANT:** With your forklift stationary, walk around with a pedestrian tag and note where alerting zones begin and end. This is essential for verifying an updated configuration.
- Select the Forklift device in your forklift monitoring unit. The ID is labeled on the unit.
- Hit the "Read" button at the bottom. You may need to scroll down using the scroll bar on the right.
- All distance settings are in meters.



ARINAlert Configuration -- v2023.1

Help About Exit

ARINAlert™  
Improved Safety Through  
Enhanced Situational Awareness

Find all

3252795895, Forklift  
2245330994, Pedestrian  
2119925803, Silent\_Zone  
1203569552, Pedestrian  
1359542279, Forklift\_Tag

STATUS: Active configuration for ['3252795895', 'Forklift']

Self radius	-	2.0	+
Warning radius	-	6.0	+
Danger radius	-	4.0	+
Driver radius	-	2.0	+
Pairing time	-	5	+

Conversation  
 Haptics  
 Strobing

Beeper rate: Off

Ping Read Write



## Writing a Configuration

- Type in new numbers or use the up and down arrows to change by 0.1 m.
- "Warning radius" is the distance at which the yellow light turns on.
- "Danger radius" is the distance at which the red light turns on.
- "Driver radius" is the inner radius for driver pairing and conversations
- "Self radius" is the reference point other devices will use for alerting to a forklift's presence rather than the unit's center point.
- Hit the "Write" button at the bottom.
- Confirmation is shown in the STATUS message

ARINAlert Configuration -- v2023.1

Help About Exit

3252795895,Forklift  
2245330994,Pedestrian  
2119925803,Silent\_Zone  
1203569552,Pedestrian  
1359542279,Forklift\_Tag

STATUS: Successful write for ['3252795895', 'Forklift']

Self radius  -  +

Warning radius  -  +

Danger radius  -  +

Driver radius  -  +

Pairing time  -  +

Conversation  
 Haptics  
 Strobing

Beeper rate

Software version

Ping Read Write



# Verifying Your Updated Configuration

- Walk around your forklift with a pedestrian tag and observe alerting distances.
- Sanity check - repeat slides 4 thru 6 and look at the values read back from your forklift or other device.



# Troubleshooting: Cannot Read or Write

- In the event that reading and writing of a configuration fails
  - First, try to Write again
- If writing continues to fail
  - Reset the USB device by unplugging or hitting the reset button
  - Unplug or reset the configuration device
  - Close the program using the "X" in the top right corner, and restart



# Troubleshooting: Device Won't Connect

- Port COM3 through COM9 is automatically selected for communication based on lowest available port number. Verify the connection.
- Open the Device Manager
- Scroll to Ports (COM & LPT)
- Look for JLink CDC UART Port (COM[3-9])
  - If the device type is not JLink, the driver is not installed correctly
  - Automatic driver installation requires admin privileges



# Troubleshooting: Device Won't Connect

- In the Device Manager, find the port COM[3-9]
  - Go to Port Settings
  - Check bits per second is 115200



## ADVANCED: Silent machine alerts

A shortcut is provided on the flash drive to start the configuration program with advanced settings. (-adv on the command line)

Most commonly, this option is used when silent forklift-forklift (FMU) alerts are desired.

Select "FMU alert" None for visual only machine to machine alerting.

The screenshot shows the ARINAlert Configuration Advanced v2023.1 application window. The title bar includes the application name and version, along with standard window controls. A menu bar with 'Help', 'About', and 'Exit' is visible. The main content area displays the status 'Active configuration for ['3252795895', 'Forklift']' and a list of configuration parameters for a forklift. Each parameter has a minus button, a text input field, and a plus button. The parameters are: Self radius (2.0), Warning radius (6.0), Danger radius (4.0), Driver radius (2.0), and Pairing time (5). Below these are three checkboxes: 'Conversation' (checked), 'Haptics' (checked), and 'Strobing' (unchecked). The 'Beeper rate' is set to 'Regular' in a dropdown menu. The 'Range type' is 'TWR\_DS\_INIT 2', 'FMU alert' is 'None 3', and 'PED alert' is 'Regular 0'. The 'Software version' is '202211'. At the bottom, there are three buttons: 'Ping', 'Read', and 'Write'.

Parameter	Value
Self radius	2.0
Warning radius	6.0
Danger radius	4.0
Driver radius	2.0
Pairing time	5
Conversation	<input checked="" type="checkbox"/>
Haptics	<input checked="" type="checkbox"/>
Strobing	<input type="checkbox"/>
Beeper rate	Regular
Range type	TWR_DS_INIT 2
FMU alert	None 3
PED alert	Regular 0
Software version	202211



## Limitations and Caution

- Carefully observe the system after updated configurations to assure that all settings are loaded properly.
- The evaluation of this software is valuable to us at ARIN Technologies.
- Please note and pass along any feedback regarding the program.
- We are committed to providing robust utilities.