



UTC Fire & Security

A United Technologies Company

868Gen2 Diagnostics Tool Guide

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Contact information

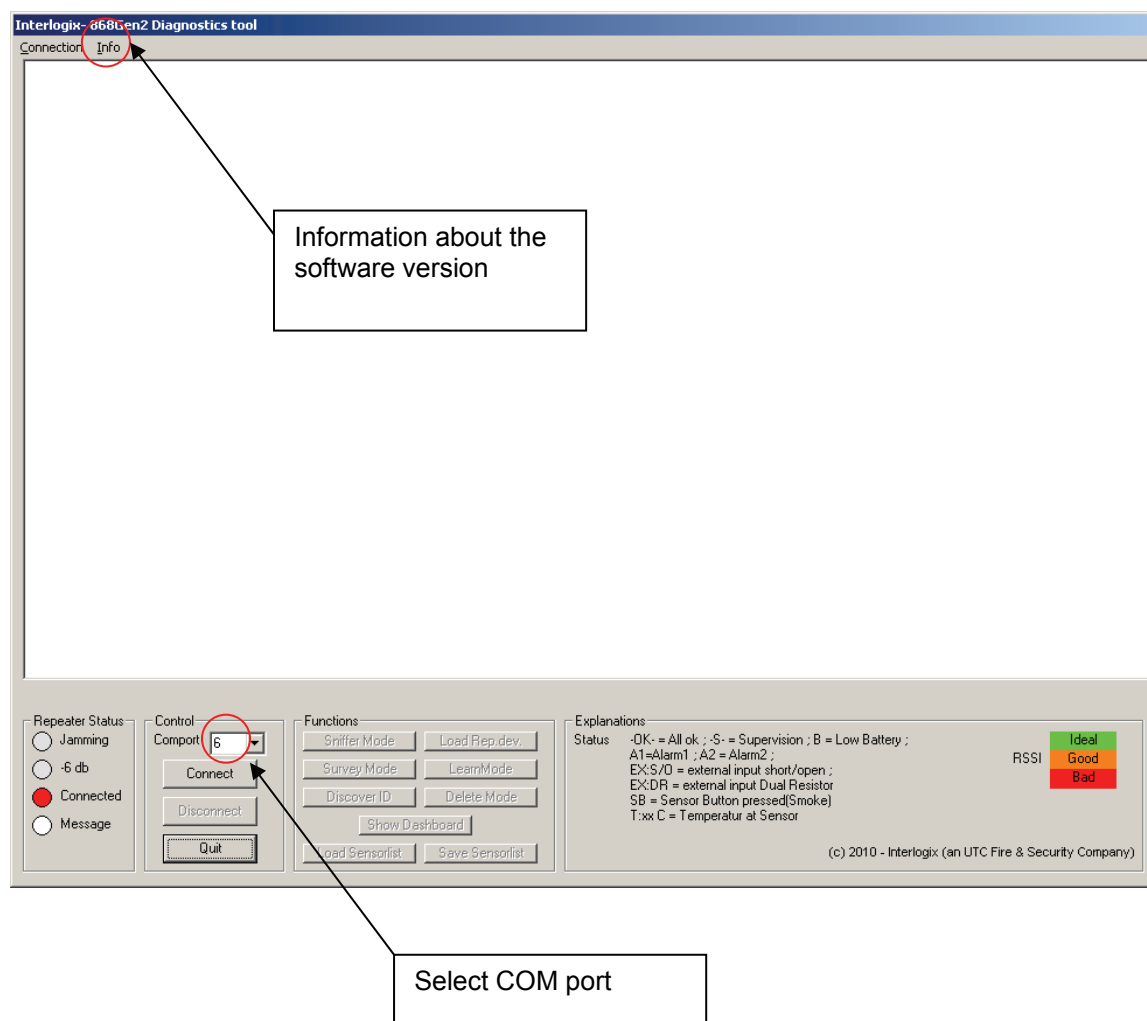
For contact information, see www.utcfireandsecurity.com.

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Startup

Figure 1: Start screen



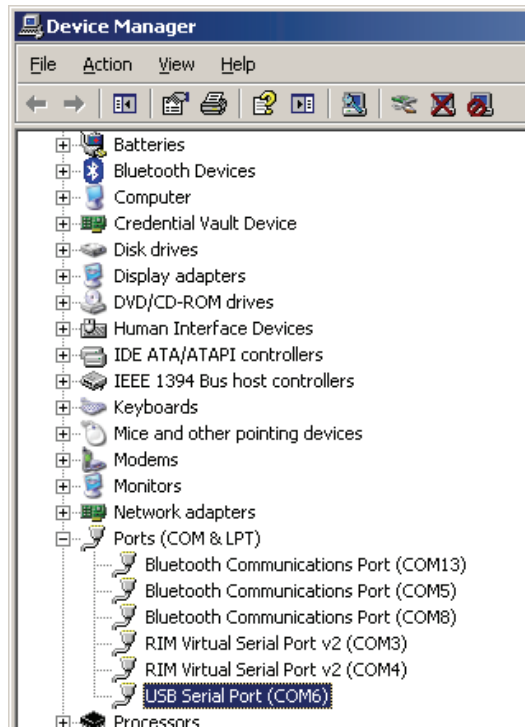
To start the connection to the Repeater for diagnostics, please set all DIP switches to OFF. Then select the COM port (which should be between 1 and 16).

If the repeater installed automatically a COM port higher than 16, please adjust the port in Windows by:

START -> SETTINGS -> CONTROL PANEL -> SYSTEM -> HARDWARE -> DEVICE MANAGER

Then select the USB port which belongs to the repeater.

Figure 2: Device Manager



In the port settings window select the Advanced button.

Figure 3: Port settings

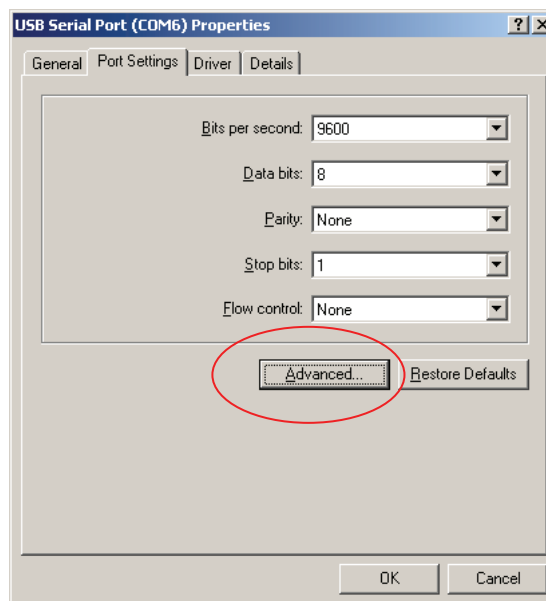
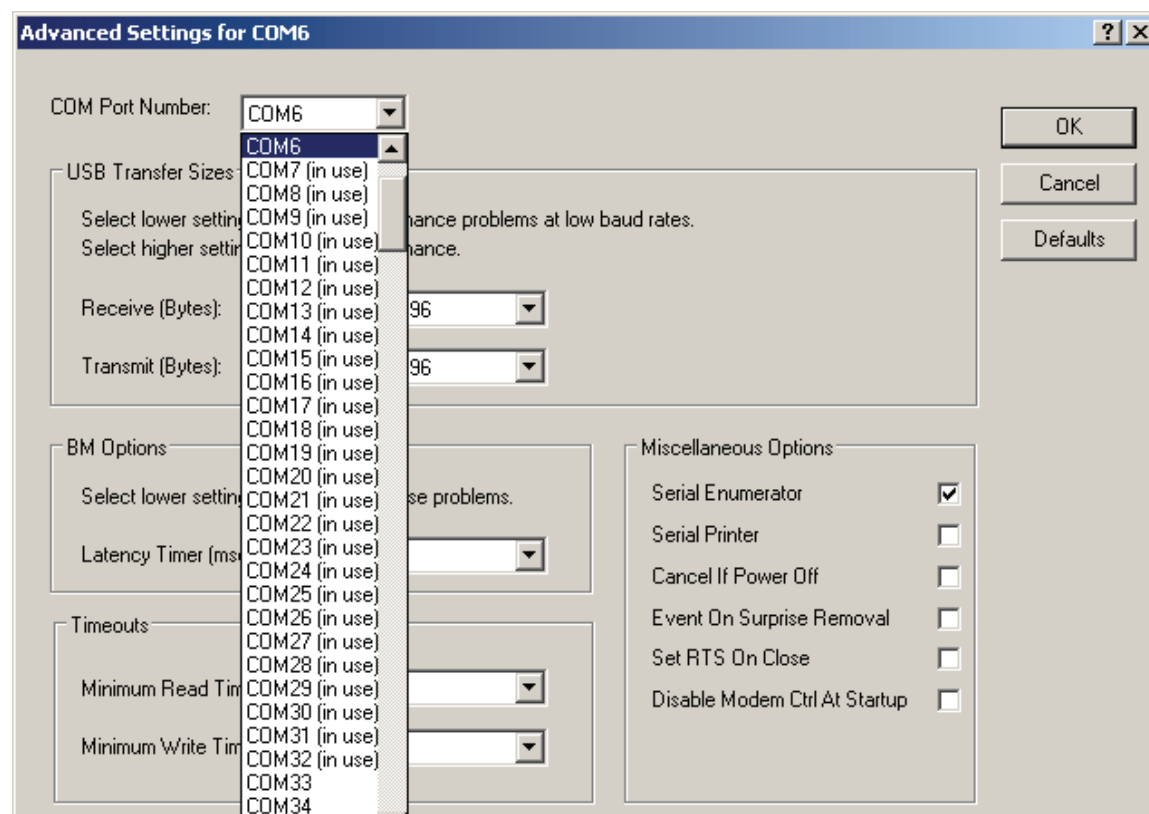


Figure 4: Selecting the COM Port number



And now select the COM port you want to use for the repeater.

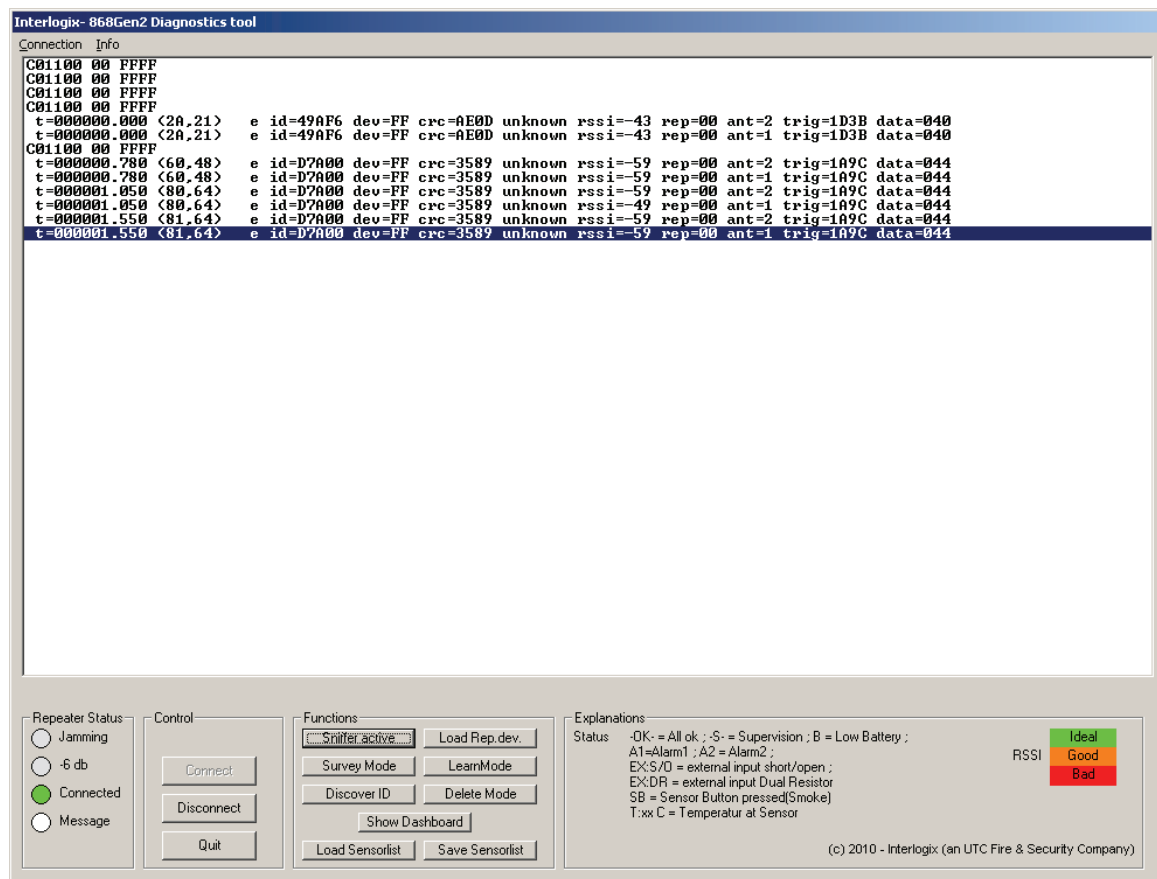
Once you have done this, select the port in the tool and click the Connect button.

Operation

Sniffer mode

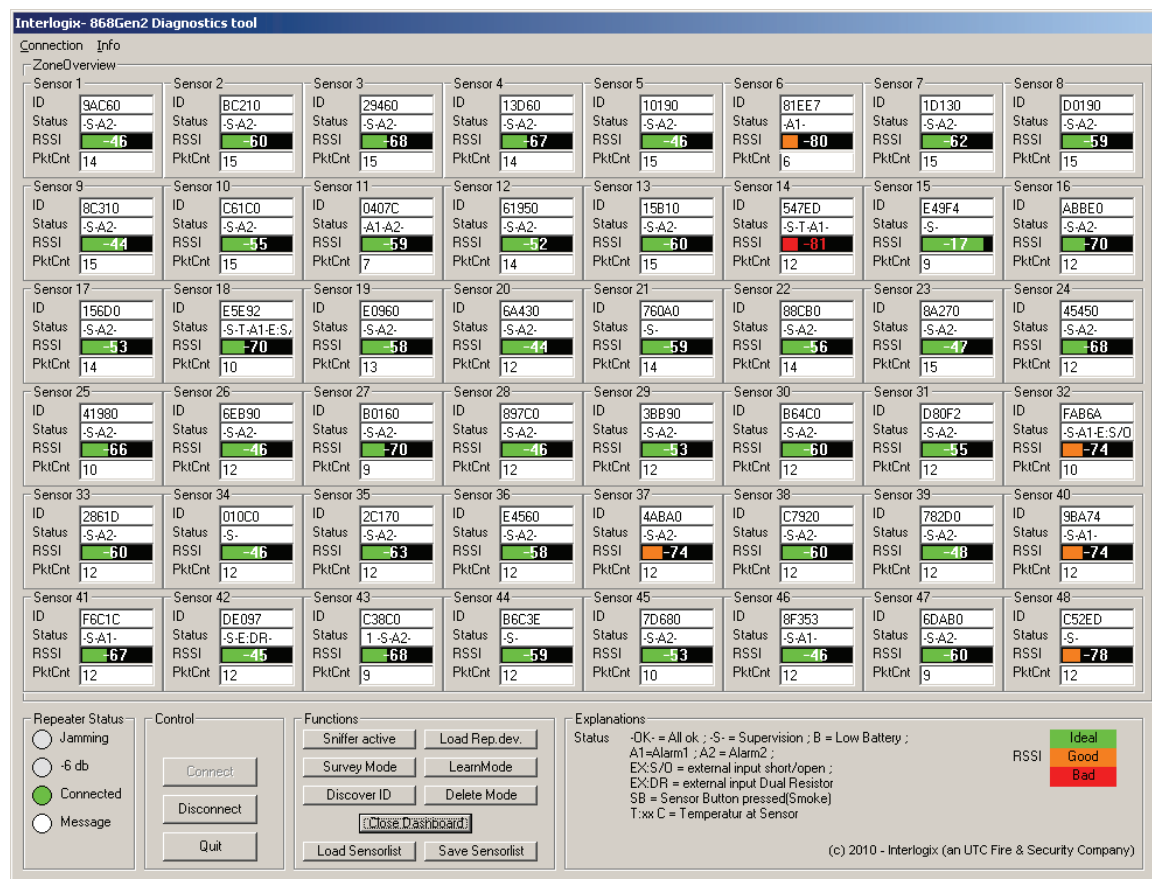
If you click on the Sniffer Mode button, the tool displays on the screen all traffic coming from the repeater.

Figure 5: Sniffer mode



The data shows device IDs of all sensors, etc. If you now click the Show Dashboard button you will get the first 48 sensors in detailed view with RSSI data, etc.

Figure 6: Dashboard

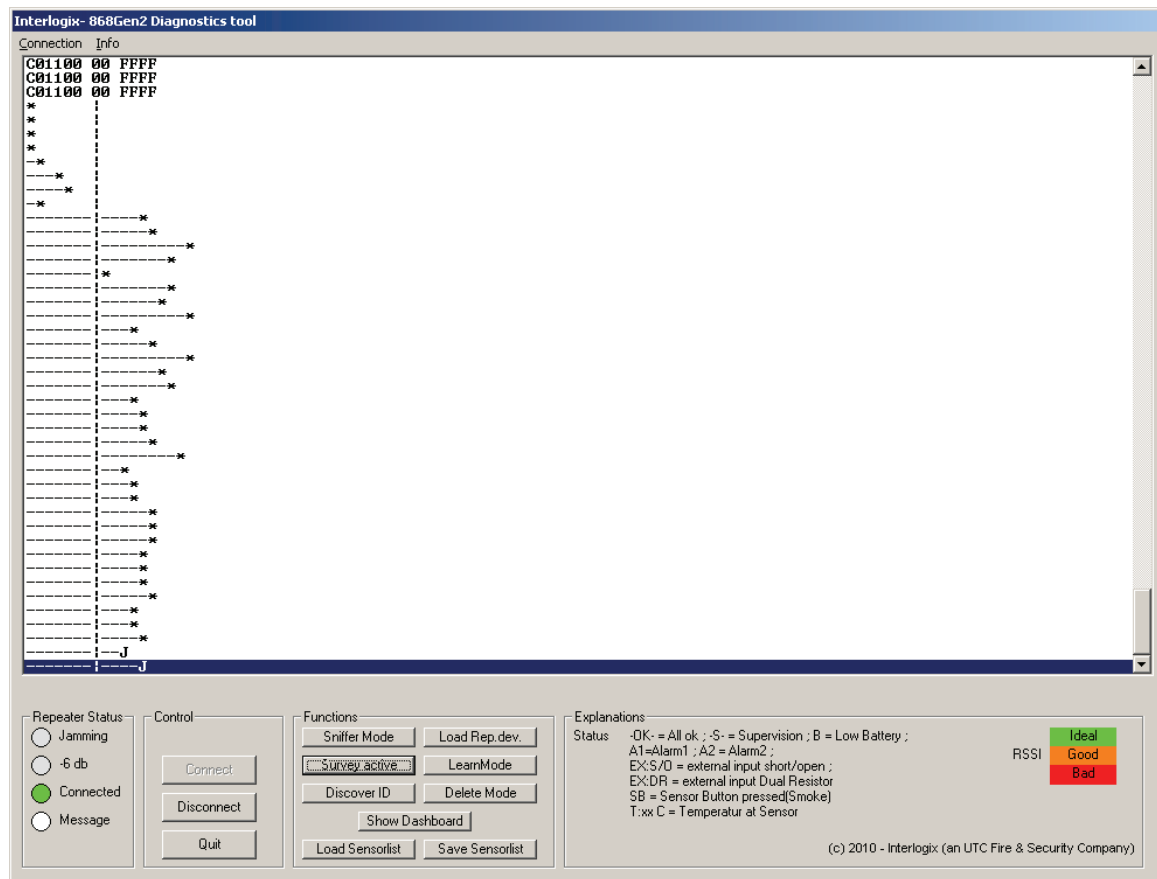


Survey mode

By clicking on the Survey Mode button, you switch on the survey mode, which enables to see all traffic on the 868 band relevant for the sensors. It also includes non-UTC sensors to check for the noise level.

The view is refreshed every second. If a signal passes the dotted line for longer than 30 seconds, jamming condition is detected.

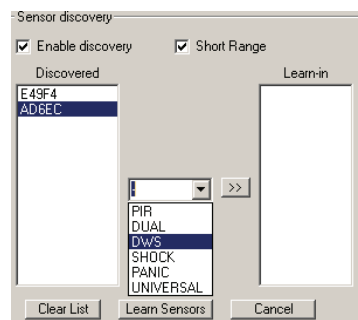
Figure 7: Survey mode



Discovery mode

To find the ID of a sensor you could switch on the Discover ID mode. If the Enable discovery check box is checked the tool shows all available sensors. If the Short Range check box is checked, only the sensors very close to the repeater are shown.

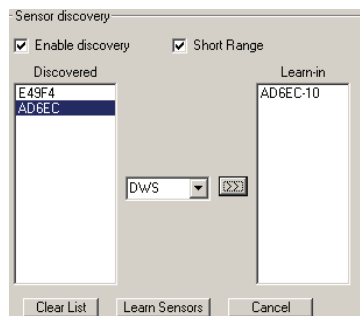
Figure 8: Sensor discovery



If you want to learn-in a device which was discovered, select it in the left listbox, define a type with the drop down menu and click the right-arrow to move it to the right listbox. You can repeat this action for as many sensors as you want to learn-in.

Finally, click the Learn Sensors button. The sensors are transmitted to the repeater and learned-in.

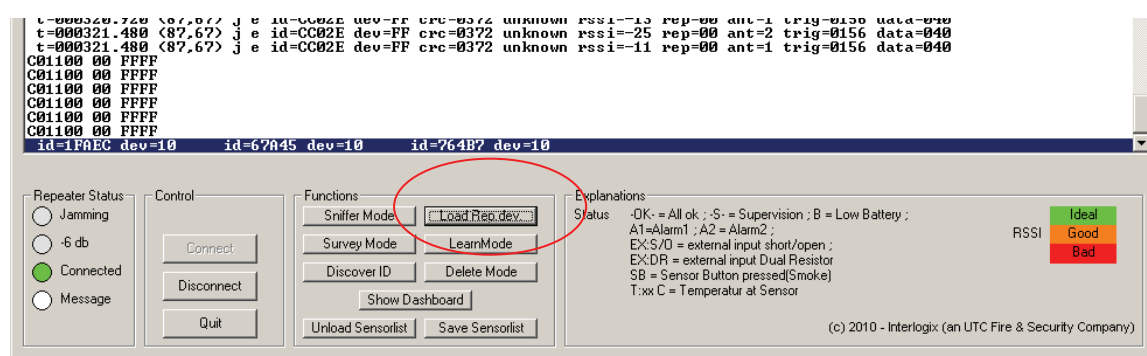
Figure 9: Learning-in discovered sensors



Displaying repeater devices

If you click the Load Rep. Dev. button the tool will display device IDs of the devices which are learned into the repeater.

Figure 10: Loading repeater devices

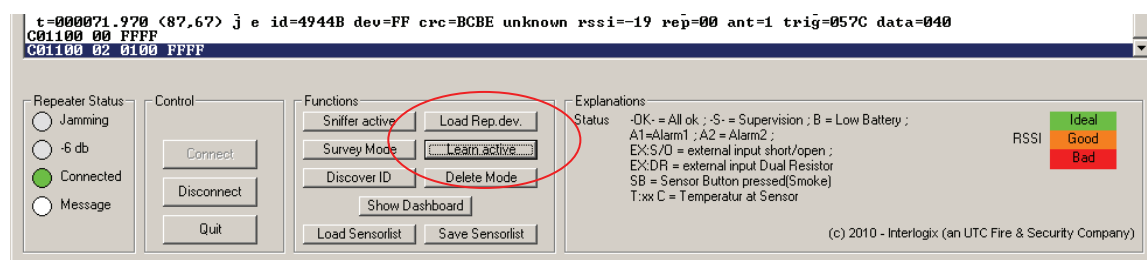


Note: As of now, the tool will only display data from these sensors, which are learned into the repeater. Also the Dashboard view will show data from these sensors only. By clicking the Unload Sensorlist button, you can switch back to the global mode and every sensor found will be displayed in the Dashboard again.

Learn mode

If you click the Learn Mode button, the repeater will switch into automatic learn mode. Every sensor tampered from now on (like during the normal learn-in process) will be added to the repeater one after the other.

Figure 11: Learn mode

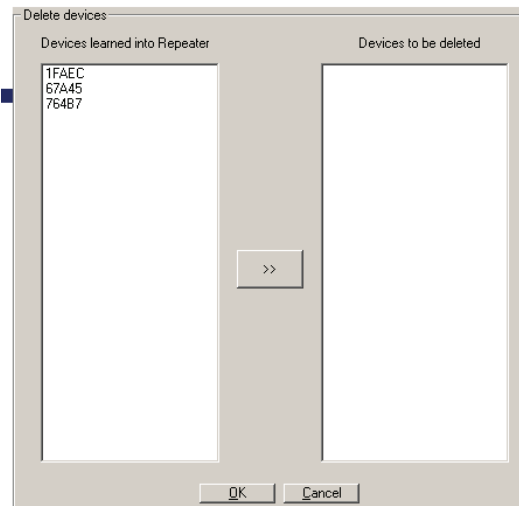


Delete mode

To delete sensors from the repeater, you need to click the Delete Mode button.

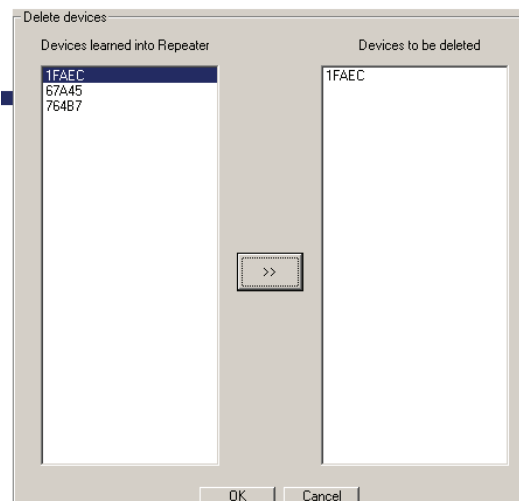
Note: Make sure that you previously clicked the Load Rep.dev. button to let the tool learn all devices the repeater has in its memory.

Figure 12: Delete mode



Select the devices from the left listbox, transfer it into the right listbox. Repeat this action for all devices you want to delete, and finally click OK to accept the deletion.

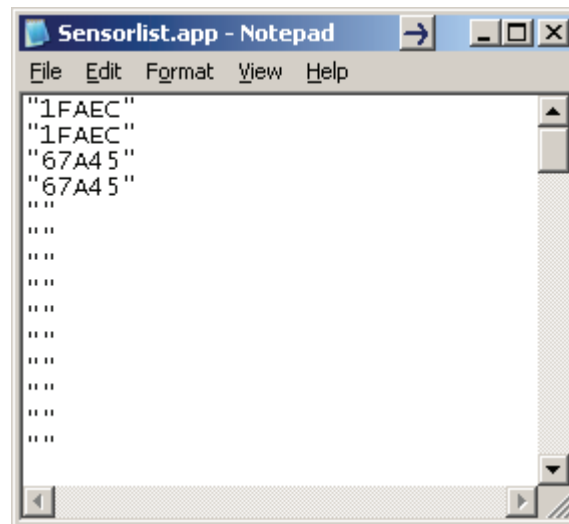
Figure 13: Deleting sensors



Handling sensor lists

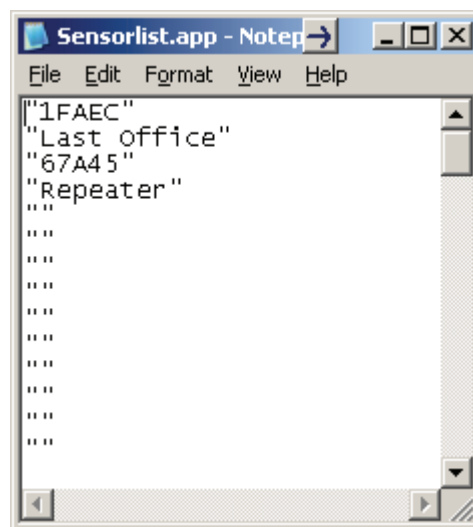
After you have loaded the devices from the repeater (with the Load Rep.dev button), you can also save the content to a file as a backup or for further work. When you click the Save Sensorlist button, the tool creates a file, for example, "Sensorlist.app". The file can be opened with applications like Notepad. The content shows:

Figure 14: Sensorlist file



The first line of each sensors is the sensor's ID, the second line could be replaced with the name of the sensor, to show the sensor with a name in the Dashboard view.

Figure 15: Named devices

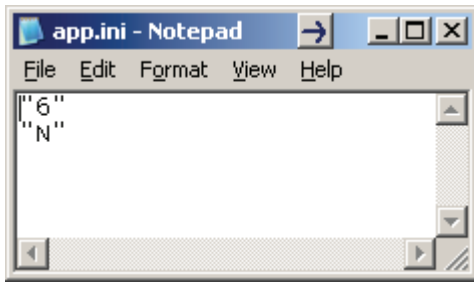


INI file

The tool also accepts an ini file. Parameters you can pre-define are the COM port and if you want to have the tool to log to a file.

You can create a file called app.ini and use the parameters like in the picture.

Figure 16: app.ini file



6 = COM port 6
N = no logging, Y would mean logging.

If logging is enabled, then the tool will log everything to the file "RepeaterLog.txt", which is stored in the same folder as the software itself.