AWLaunch

Software manual

Version 2.0

Reflects software version 1.0 Rev 74

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Preface

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About this Manual

This Manual is designed to help you get familiar with the JAVAD Mobile Tools User Interface and introduce you to the JAVAD Mobile Tools main features.

Symbols and Typographic Conventions

This Manual uses the following text conventions:

Example Description.

Main Titles of dialog windows/boxes, names of menu options.

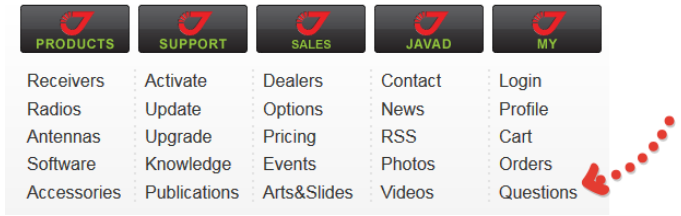
Screen Captures

This Manual includes sample screen captures. Your actual screen can look slightly different from the sample screen due to the receiver you have connected, operating system used and settings you have specified. This is normal and not a cause for concern.

Technical Assistance

If you have a problem and cannot find the information you need in the product documentation, contact your local dealer. Alternatively, request technical support using the JAVAD GNSS World Wide Web site at: www.javad.com.

To contact JAVAD GNSS Customer Support use the QUESTIONS button available on the www.javad.com.



General Description

AWLaunch is an MS Windows® based, user-friendly software application designed for configuring and maintaining ArWest radio systems.

Management

AWLaunch is intended to manage the ArWest radio modems. It provides dialog boxes to change and configure all radio options.

In addition to the individual option-tuning feature, AWLaunch provides compound options for downloading feature. The downloading process uses X-Modem protocol that supports both the unit and the PC program. The manufacturing will provide a configuration in shipping packages so every user can configure each unit with default parameters provided by the vendor.

AWLaunch also works directly with a Command Line Interface (CLI), without a GUI, by entering CLI commands in a *Terminal* window.

Setting up AWLaunch

System requirements

Check that you have the following required (or recommended) items before installing and using AWLaunch.

A PC compatible with Intel® Pentium® 100 MHz or faster.

- 10 MB free disk space.
- 32 MB RAM or more (64 MB recommended).
- Operating Systems: MS Windows 2000, XP,Vista,7,8,10
- An RS-232C port.

Installing AWLaunch

AWLaunch is available at the Javad GNSS website: http://javad.com/jgnss/products/software/awlaunch.html. Here are the steps to install it:

- Download the archived program from the website, extract from the archive and save it into a folder on your hard drive.
- Navigate to the location of the saved AWLaunch program and double click on the AWLaunch.msi icon.

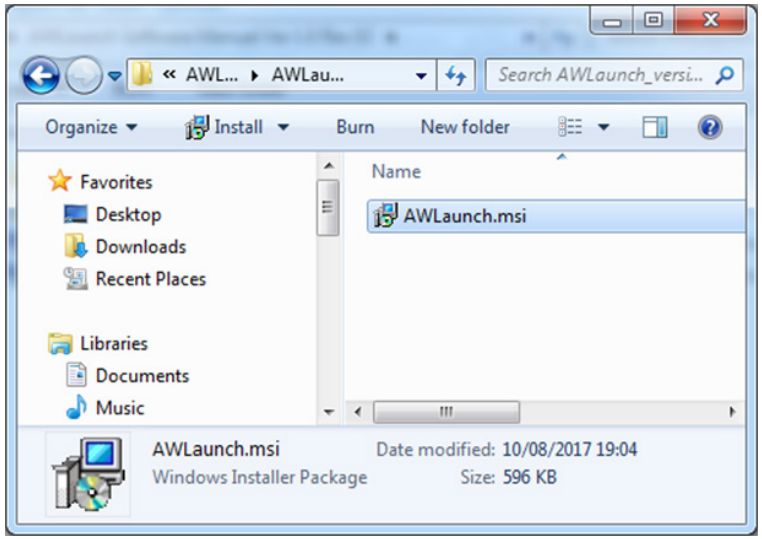


Figure 1. Start installation

- Click *Next* to continue.

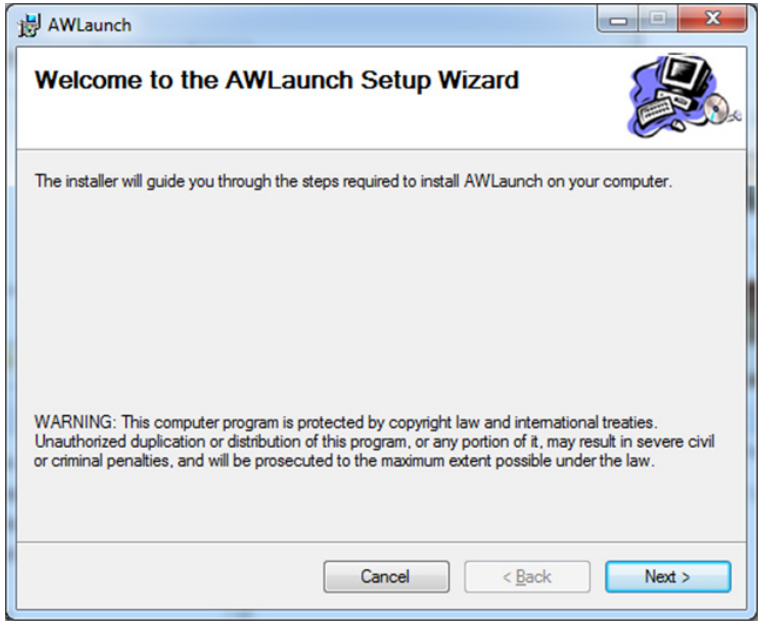


Figure 2. AWLaunch setup wizard

- Keep the default installation location and click *Next* twice.

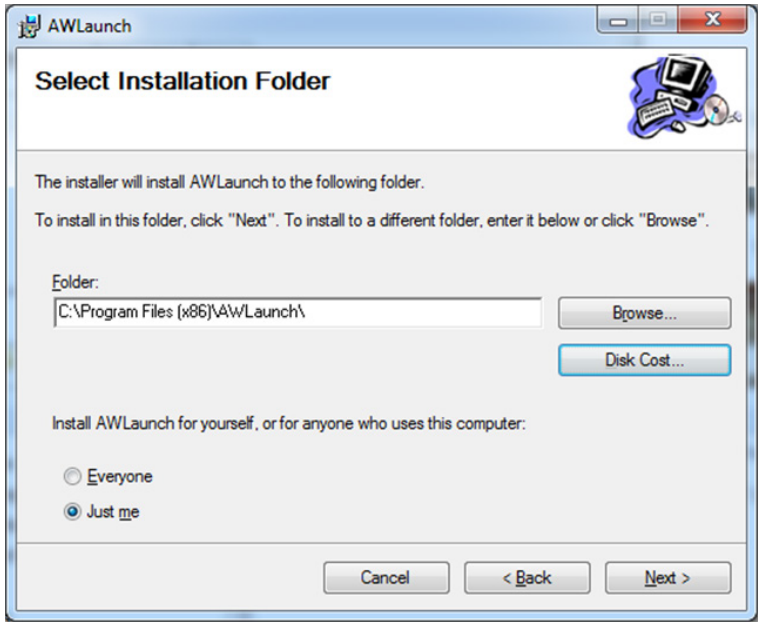


Figure 3. Select installation folder

- After installation is finished, click *Close* to quit the wizard.

Uninstalling AWLaunch

To uninstall AWLaunch use the *Programs and Features* of Control Panel. The name of this section may vary between versions of MS Windows OS.

- Open the Control Panel of Operating System and go to *Programs and Features* section.
- Select AWLaunch and click *Uninstall*. This will uninstall the AWLaunch software.

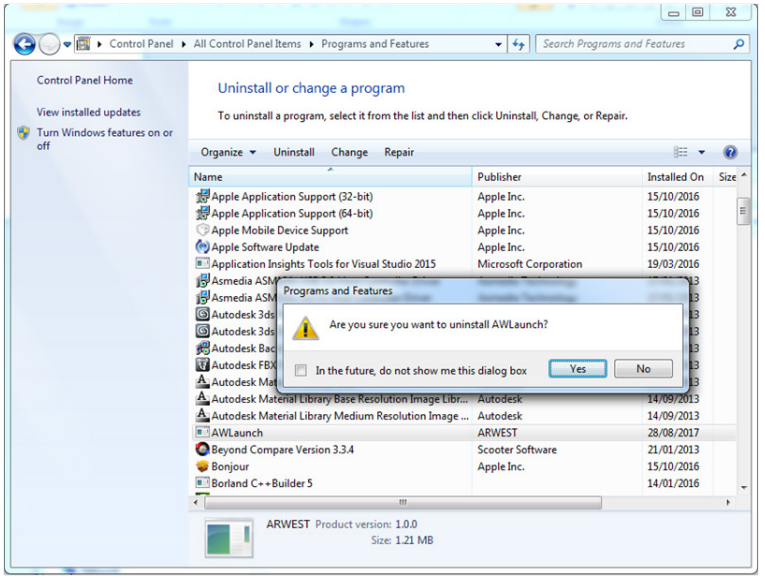


Figure 4. Installing AWLaunch

Starting AWLaunch

Perform the following steps to run the software and connect to radio modem:

- Connect radio modem to the PC via RS232 serial port, USB or Bluetooth (optional) and power cycle it.
- Click *Start* in the bottom-left corner of your computer's screen, select *ArWest Communications* and click *AWLaunch*.
- At this point, AWLaunch window will appear as shown below.

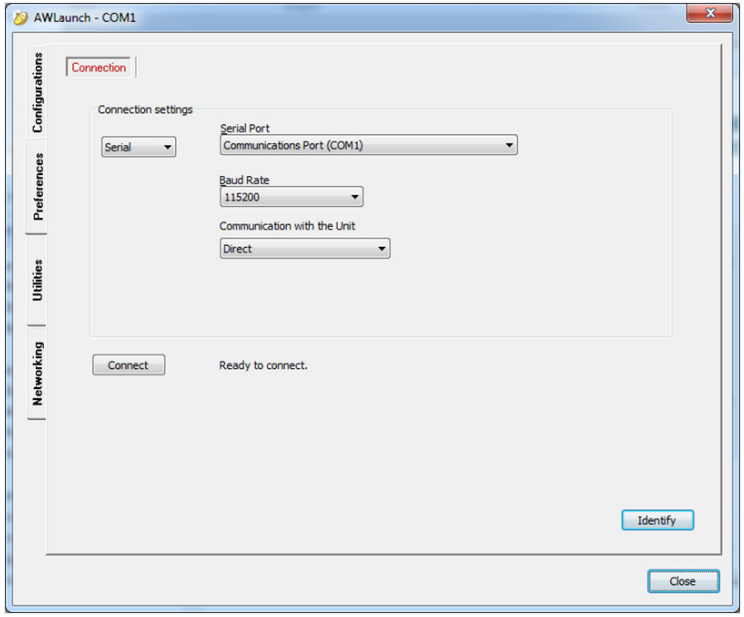


Figure 5. Connection

- In the open *Preferences* tab select the port connected to the radio and click *Connect*.
- Click *Identify* and wait till the identification process is completed.
- At this point, the radio is connected to and identified by the AWLaunch software. Ready to modify configuration parameters or update radio's firmware

Closing AWLaunch

To quit AWLaunch, click *Close*.

Warning: It is recommended to close the AWLaunch before switching the receiver OFF and disconnecting the cable.

Configurations

Identification

The *Identification* tab is used to get some identification parameters of the radio such as radio type, serial number, firmware and hardware versions.

Perform the steps below to get them:

- Select the *Identification* sub tab of the *Configurations* tab;
- Click *Identify* (not necessary if identification process has been completed successfully once).

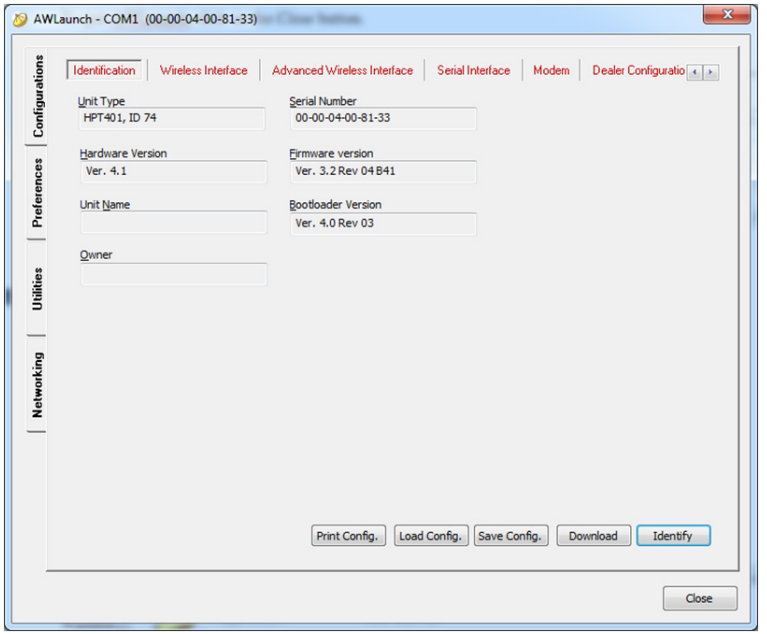


Figure 6. Identification

Wireless Interface

Wireless Interface tab is used to set/get radio's wireless parameters such as wireless protocol, modulation type, frequency channel, output power, scrambling, FEC, availability of Repeater between Base and Remote radio modems. Perform the steps below to set/get the mentioned parameters:

• Select *Wireless Interface* sub tab of the *Configurations* tab;

• Click *Identify* (not necessary if identification process has been completed successfully once);

• Modify the parameters of wireless interface as your setup needs;

• Click *Download* to load all the modified parameters to the radio modem (note that clicking *Download* will load all the parameters containing in all sub tabs of the *Configurations* tab).

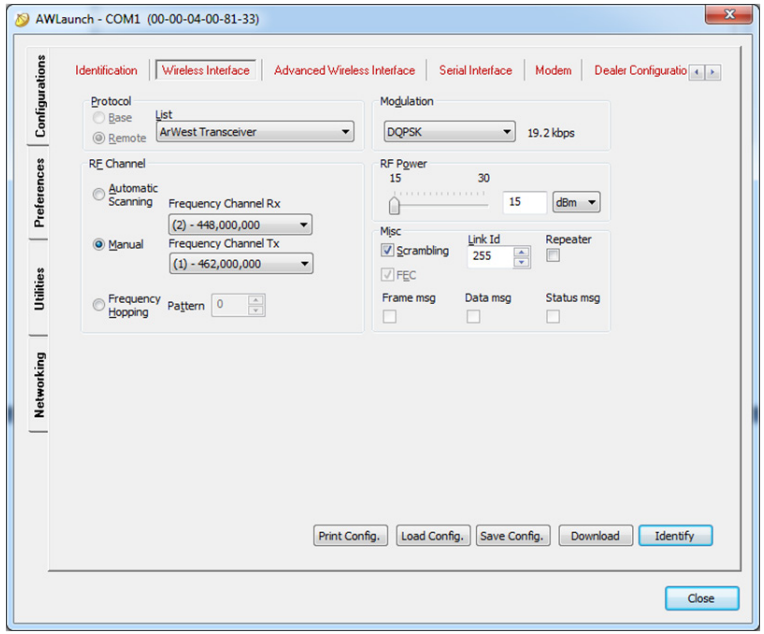


Figure 7. Wireless Interface

Note: If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

Advanced Wireless Interface

Advanced Wireless Interface tab is used to set/get some advanced wireless parameters of the radio modem such as receiving Sensitivity, Synchronization reset time (the timeout between receiving the last burst of data and starting to look for signal again), Transceiver mode, Call Sign, etc. Perform the steps below to set/get the mentioned parameters:

• Select the *Advanced Wireless Interface* sub tab of the *Configurations* tab;

• Click *Identify* (not necessary if identification process has been completed successfully once);

• Modify advanced parameters of wireless interface as your setup needs;

• Click *Download* to load all the modified parameters to the radio modem (note that clicking *Download* will load all the parameters containing in all sub tabs of the *Configurations* tab).

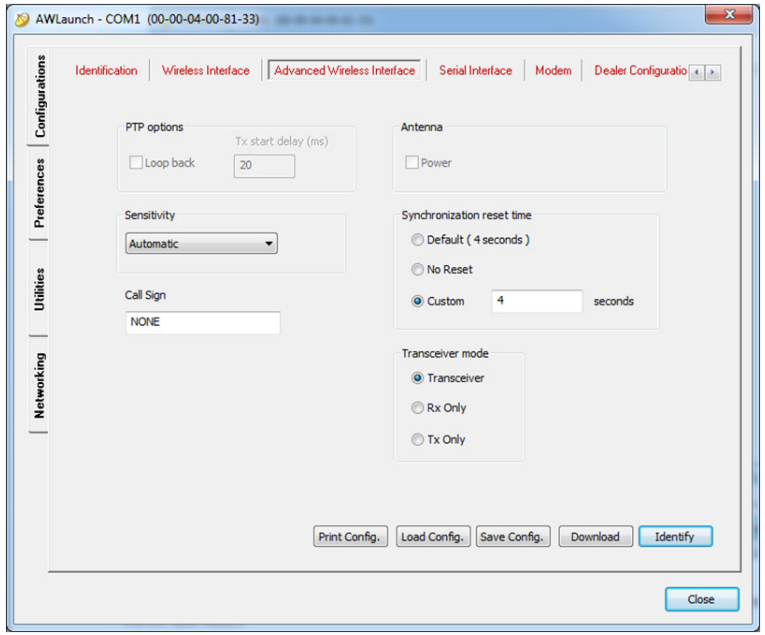


Figure 8. Advanced Wireless Interface

Note: If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

Serial Interface

The *Serial Interface* tab is used to set/get the serial port's parameters of radio modem, such as baud rate, parity, byte size, flow control, data buffering, routing options. Perform the steps below to set/get the mentioned parameters:

• Select the *Serial Interface* sub tab of the *Configurations* tab;

• Click *Identify* (not necessary if identification process has been completed successfully once);

• Modify the parameters of serial interface as your setup needs;

• Click *Download* to load all the modified parameters to the radio modem (note that clicking *Download* will load all the parameters containing in all sub tabs of the *Configurations* tab).

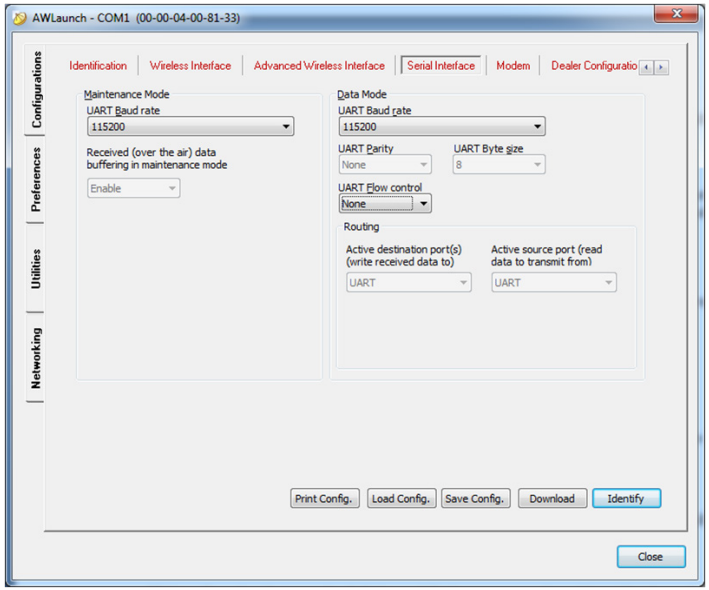


Figure 9. Serial Interface

Note: If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

Sleeping

The *Sleeping* tab is used to set/get sleep mode parameters such as enable/disable sleep mode, go to sleep mode timeout and activity type of wake up. Perform the steps below to set/get these parameters:

• Select the *Sleeping* sub tab of *Configurations* tab;

• Click *Identify* (not necessary if identification process has been completed successfully once);

• Modify the parameters of sleep mode as your setup needs;

• Click *Download* to load all the modified parameters to the radio modem (note that clicking *Download* will load all the parameters containing in all sub tabs of the *Configurations* tab).

Note: If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

Dealer Configuration - Channel Map

The *Dealer Configuration* tab is used to set/get channel spacing, frequency channel map, maximum allowable output power. Perform the steps below to set/get these parameters:

• Select the *Dealer Configuration* sub tab of the *Configurations* tab;

• Click *Identify* (not necessary if identification process has been completed successfully once);

• Select channel spacing parameter as your setup needs;

• To add a new frequency channel to the *Channel* map enter new frequency to the *Channel map's* edit box and click on the *Add* button (note that frequency value must be in Hertz);

• To remove a frequency channel from the *Channel* map, select the corresponding channel in the list and click *Remove*;

• To change the frequency of specified channel, select the corresponding channel in the list, change its frequency in the *Channel map's* edit box and click *Change*;

• Click *Download* to load all the modified parameters to the radio modem (note that the clicking *Download* will load all the parameters containing in all sub tabs of the *Configurations* tab).

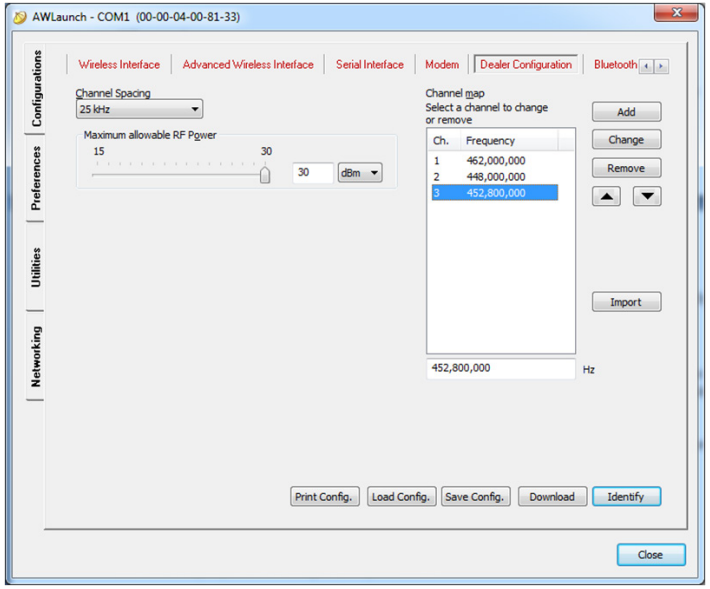


Figure 10. Dealer Configuration

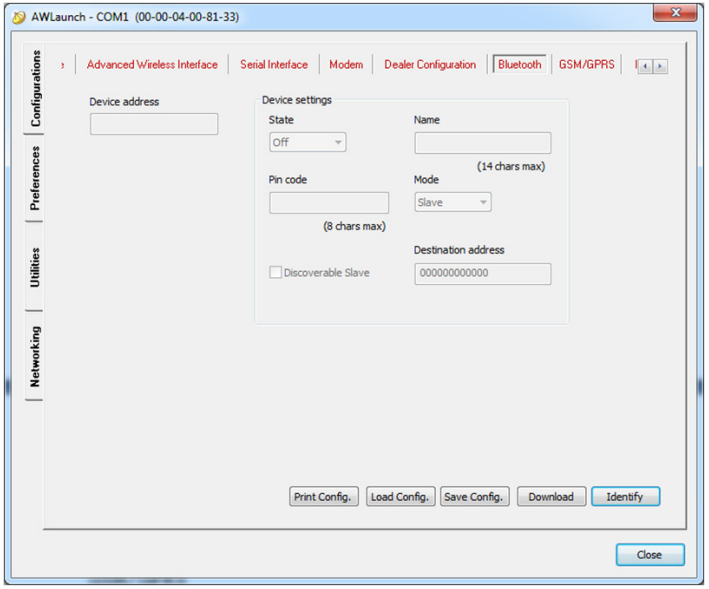


Figure 11. Bluetooth

Note: If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

Bluetooth

The *Bluetooth* tab is used to set/get Bluetooth specific parameters of the radio such as for enabling/disabling Bluetooth State (On or Off), Name, Pin code, Operating mode (Slave or Master), Destination address, etc. These parameters are optional and available only for radio modems with built in Bluetooth. Perform the steps below to set/get the mentioned parameters:

- Select the *Bluetooth* sub tab of the *Configurations* tab;
- Click *Identify* (not necessary if identification process has been completed successfully once);
- Modify the parameters of the Bluetooth as your setup needs;
- Click *Download* to load all the modified parameters to the radio modem (note that clicking *Download* will load all the parameters containing in all sub tabs of Configurations tab).

Note: If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

GSM/GPRS

The *GSM/GPRS* tab is used to set/get the GSM module's specific parameters of the radio such as Frequency Band, Pin code, Access Point Name, Login, and Password. These parameters are optional and available only for radio modems with built in GSM module. Perform the steps below to set/get the mentioned parameters:

- Select GSM/GPRS sub tab of Configurations tab;
- Click *Identify* (not necessary if identification process has been completed successfully once);
- Modify the parameters of GSM/GPRS as your setup needs;
- Click *Download* to load all the modified parameters to the radio modem (note that clicking *Download* will load all the parameters containing in all sub tabs of Configurations tab).

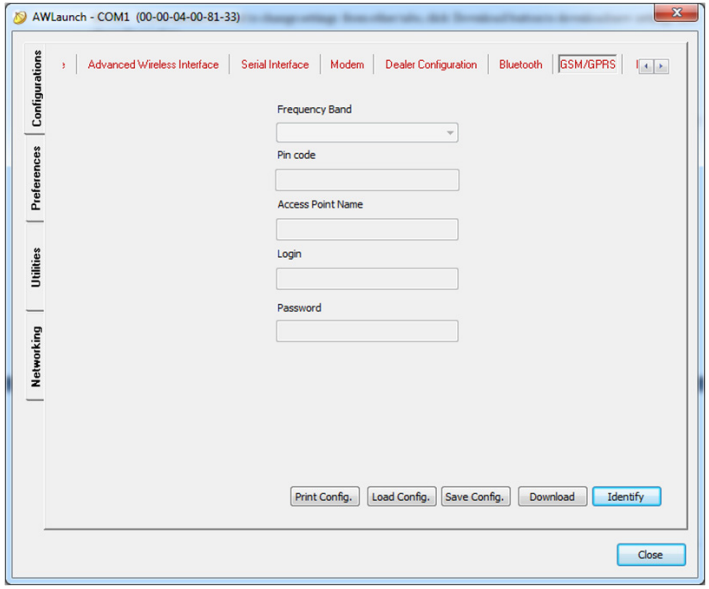


Figure 12. GSM/GPRS

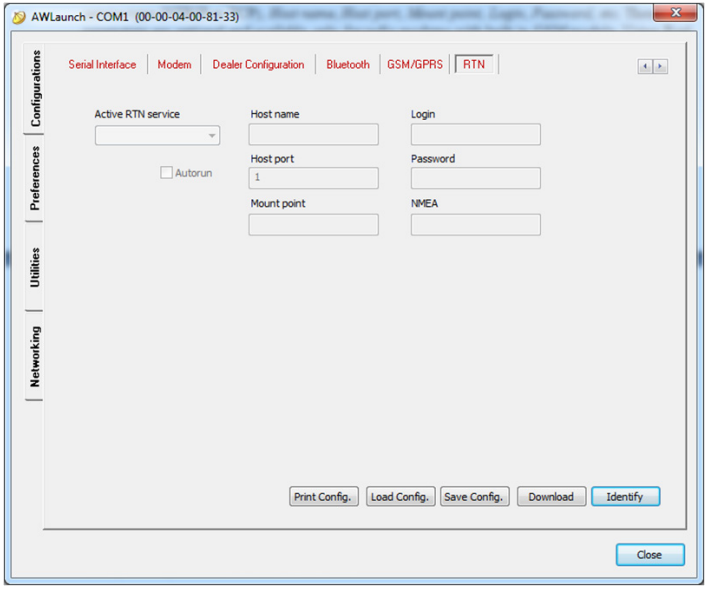


Figure 13. RTN

Note: If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

Note: If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

RTN - Real Time Network

The *RTN* tab is used to set/get the Real Time Network specific parameters of the radio such as Active RTN service type (NTRIP or TCP), Host name, Host port, Mount point, Login, Password, etc. These parameters are optional and available only for radio modems with built in GSM module. Using Real Time network service, the radio modem connects to the specified RTN caster and starts receiving data. Perform the steps below to set/get the mentioned parameters:

- Select the *RTN* sub tab of the *Configurations* tab;
- Click *Identify* (not necessary if identification process has been completed successfully once);
- Modify the parameters of RTN as your setup needs;
- Click *Download* to load all the modified parameters to the radio modem (note that clicking *Download* will load all the parameters containing in all sub tabs of the *Configurations* tab).

Save/Load configuration file to/from PC

The AWLaunch software supports a feature to save and load configuration file to/from PC. This feature is used to save desired set of configuration parameters to a file and load them from PC to the radio when it is needed. If you already configured your radio modem and would like to save the configuration parameters to the PC then perform the steps below:

- Click *Save Config.* available at the bottom of the *Configurations* tab;

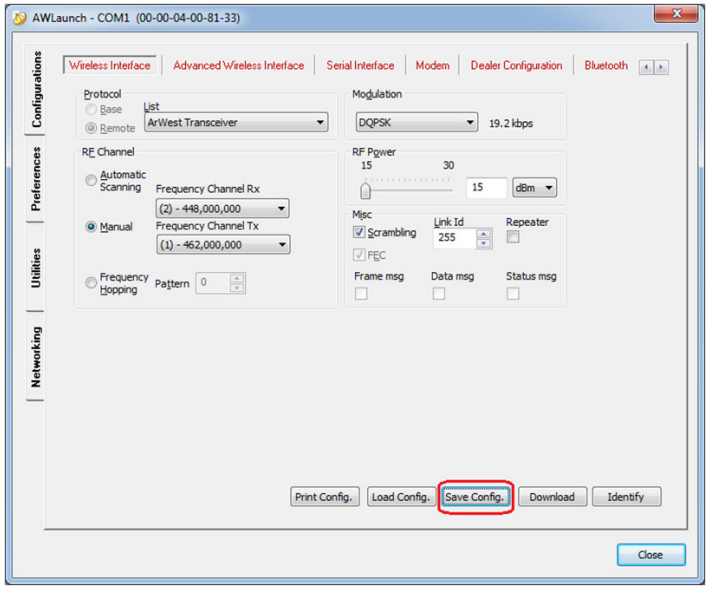


Figure 14. Save/Load configuration file

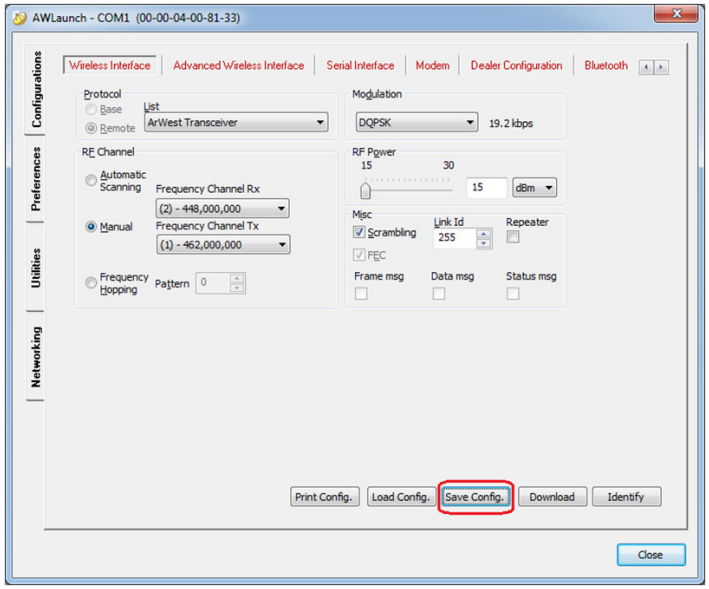


Figure 15. Click Load Config.

• Select the folder where you would like to save the file containing configuration parameters;

• Click *Save*.

• Now if you would like to load configuration parameters from PC to the radio modem then perform the steps below:

• Click *Identify* (not necessary if identification process has been completed successfully once);

• Wait until identification process is completed;

• Click *Load Config.* available at the bottom of the *Configurations* tab;

• Browse for the file containing configuration parameters you would like to load and click *Open*;

• Click *Download* to load all the parameters to the radio modem.

Utilities

Download Firmware

To upgrade the firmware of radio modem, the following steps should be performed:

• Select the *Utilities* tab then go to the *Download Firmware* sub tab;

• Click *Identify* (not necessary if identification process has been completed successfully once);

• Wait until identification process is completed;

• Click *Browse* and select the firmware file which you would like to download to radio modem;

• Click *Download* (the process of firmware loading may take a few minutes);

- Wait until the firmware loading process is completed.

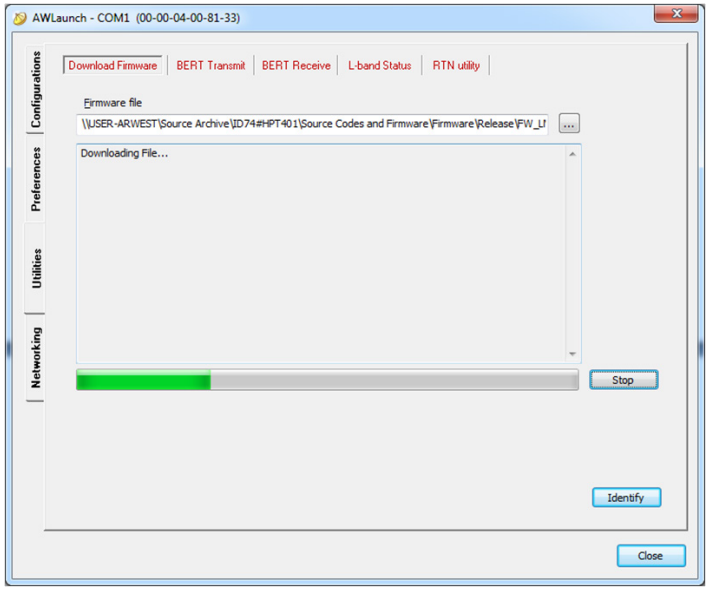


Figure 16. Firmware loading process

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