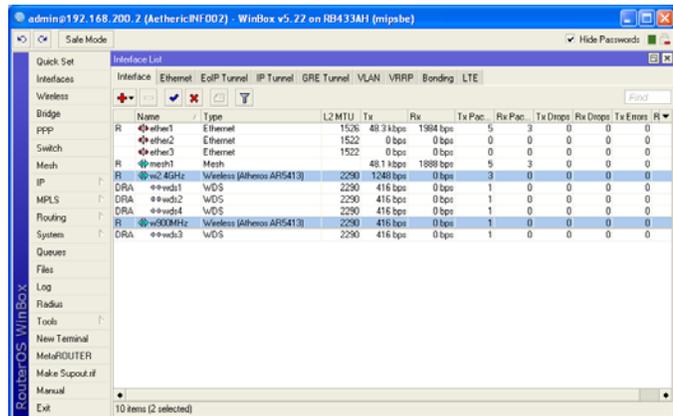# Aetheric Radio Data Collection Procedure

The following procedure is used to collect diagnostic information for troubleshooting Aetheric Radios. This document is designed to be used in conjunction with the Aetheric Radio Data Collection Form.
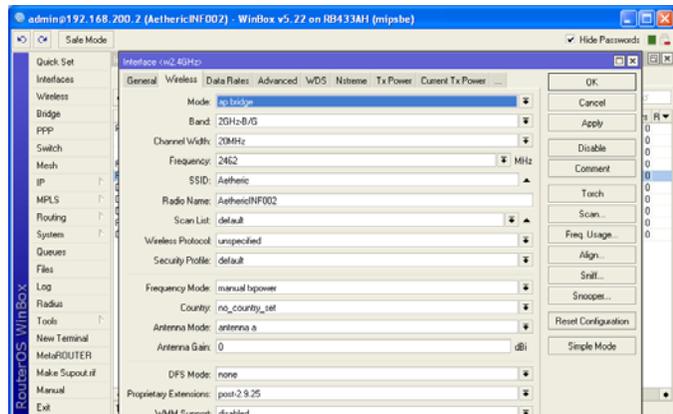
Note 1: The Operator Control Unit (OCU) must be physically connected, via an Ethernet cable, to either the Ground Control Station (GCS) or vehicle radio.
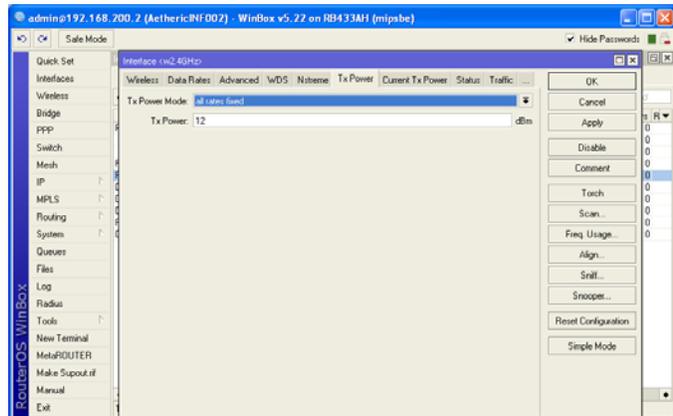
Note 2: All radios must be turned on.

1. On the OCU, launch WinBox (C:\GC07\winbox.exe), click the "…" button. From the drop-down select the IP address of the radio (IP can be found on the radio label), then click the "Connect" button.
2. Record the serial number and IP address of the selected radio on the Aetheric Radio Data Collection Form.
3. On the left side of the window, click the "Interfaces" tab. In the "Interface List" window, select an entry "Type" that starts "Wireless (Atheros …".

4. Record the "Name" (i.e., frequency; e.g., "w2.4GHz", "w900MHz") value on the Aetheric Radio Data Collection Form.
5. Double-click the selected entry.

6. At the top of the "Interface <w*frequency*>" window, click the "Wireless" tab. Record the following on the Aetheric Radio Data Collection Form:
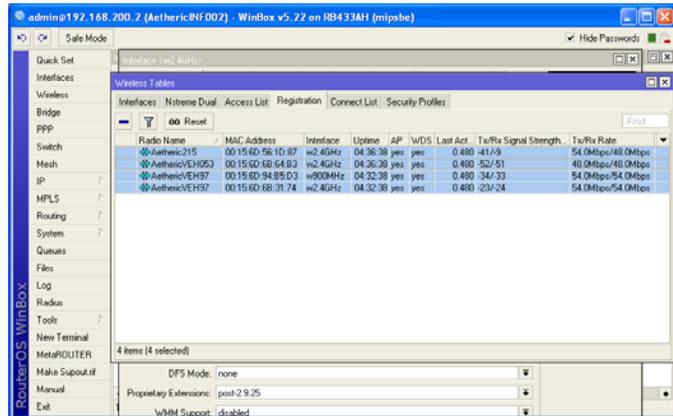   • Channel Width
   • Frequency

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7. At the top of the "Interface *<wfrequency>*" window, click the "Tx Power" tab. Record the "Tx Power" value on the Aetheric Radio Data Collection Form.

8. Repeat steps 3-7 for each frequency of the radio selected during step 1. There can be up to 3 frequencies per Aetheric Radio.
9. On the left side of the window, click the "Wireless" tab. For each entry in the "Wireless Tables" window, record:
   - Radio Name
   - Interface
   - Tx/Rx Signal Strength
   - Tx/Rx Rate

10. Close WinBox.
11. Repeat the entire procedure for each radio.

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