
SECTION 4: NON-STANDARD MAINTENANCE

This section provides instructions for performing non-standard maintenance on the VS2.5 transmitter. This section includes the following topics:

- [Upgrading software](#)
- [Configuring an audio loss backup preset - see page 4-5](#)

UPGRADING SOFTWARE

Periodically, enhancements or improvements to the operating system are identified and made available. Perform a software upgrade, as required, as follows:

**CAUTION:**

If you are upgrading from a software version prior to V1.2, the ARM Watchdog feature must be **DISABLED** during the software upgrade process. Failure to observe this may result in a non-operational transmitter that will require a full operating system recovery. Refer to [“Configuring ARM watchdog” on page 2-86](#) for details on disabling the ARM watchdog feature.

*Note:*

Nautel recommends you perform a software upgrade at the transmitter site.

PARTS AND TOOLS

- Laptop (i.e., local computer for direct connection) or network computer with Windows and Internet Explorer Web browser
- CAT5 Ethernet cable
- Upgrade software (*.tgz file), provided via email or web download

PRELIMINARY CHECKS

1. Determine the current software revision installed. Via the advanced user interface (AUI) screen, go to **Menu/Software/Upgrade Software**. Select the *.tgz file in the Select Upload File list (should highlight in blue) and click **Versions**. Note the current software revision for Audio Player, AUI, Server, SNMP Agent, Axia Livewire Module, Watchdog and Controller.

2. Contact Nautel for the most recent software revision and download *.tgz file to a laptop or network location.

TRANSFERRING UPGRADE FILE

The following steps assume either the laptop will be used to connect directly to the transmitter **OR** the transmitter and network computer are currently connected to the same network.

TRANSMITTER IP CONFIGURATION

1. From the transmitter AUI, go to **Menu/Software/Network Setup**.
2. Record your current network settings (IP Address, Subnet Mask, Default Gateway).
3. If connecting to the transmitter directly with a laptop, you must set a static IP address. This can only be done via the front panel interface. From the front panel UI's **Main Menu**, go to **User Settings/Network Settings** and set the IP address as follows:
 - DHCP: OFF
 - IP Address: 10.10.10.2
 - Netmask: 255.255.255.0
4. Set the transmitter for **Remote** control.

LAPTOP IP SETUP

The following steps assume the operating system is Windows XP. Adapt as required for computers with different operating systems.

1. On the laptop go to **Start Menu/Control Panel/Network Connections/Local Area Network**.
2. In the Local Area Network Status, open the **General** tab and choose **Properties**. Scroll down and highlight **Internet Protocol (TCP/IP)**. Choose **Properties**.
3. In the *Internet Protocol (TCP/IP) Properties* window, select **Use the following IP address**.
4. Enter the following settings:
 - IP Address: 10.10.10.1
 - Subnet Mask: 255.255.255.0
 - Default Gateway: 192.168.1.2
5. In the *Internet Protocol (TCP/IP) Properties* window, select **OK**.

6. In the *Local Area Connection Properties* window, select **OK**.
7. In the *Local Area Connection Status* window, select **Close**.
8. Close the *Network Connections* window.

TRANSFER SOFTWARE UPGRADE FILE TO TRANSMITTER

1. If using a laptop, connect the laptop network interface card to the transmitter **LAN (A1J8A)** connector on the rear panel using a CAT5 Ethernet cable. Open Internet Explorer and search for 10.10.10.2. The transmitter login screen should appear.
2. If using a network computer, open Internet Explorer and search for the IP address recorded in [Step 2](#) of “[Transmitter IP configuration](#)” on [page 4-2](#). The transmitter login screen should appear.
3. At the transmitter login screen enter:
 - User: “Nautel” or “****”, where **** is the user assigned user name
 - Password: leave blank (default) or “****”, where **** is the user assigned password
4. Navigate through the AUI to **Menu/Software/Upload Files**, select the upgrade files tab and press **Browse**. Locate the software update *.tgz file stored on the laptop or network computer, and press **Upload** to load the file into the transmitter upload file list. Allow this operation to complete.

INSTALLING NEW SOFTWARE

**CAUTION:**

If you are upgrading from a software version prior to V1.2, the ARM Watchdog feature must be DISABLED during the software upgrade process. Failure to observe this may result in a non-operational transmitter that will require a full operating system recovery. Refer to [“Configuring ARM watchdog” on page 2-86](#) for details on disabling the ARM watchdog feature.

1. Set the transmitter to **RF Off** and for **Remote** control. If the transmitter is already in **Remote** control mode, turn off the transmitter using the AUI on the laptop. Perform the following steps remotely using the AUI on the laptop.
2. Go to the AUI **Menu/Software/Upgrade Software** screen and select the update *.tgz file from the Select Upload Files list (should highlight in blue) and press **Start**.

**CAUTION:**

Do not leave this page until the flash process is complete.

3. After a successful load (status is 100% complete and a message indicates a successful load), cycle the ac power (turn off, then on) on the VS2.5.
4. This completes the software upgrade. Restore the former network settings on the transmitter and laptop as required (see [Step 2 of “Transmitter IP configuration” on page 4-2](#)).
5. Login and repeat [Step 1 of “Preliminary checks” on page 4-1](#) to determine if the current version is the same as the upgrade version - this confirms the upgrade was successful.
6. If the upgrade was not successful, repeat [Step 1](#) through [Step 5](#). If still unsuccessful, contact Nautel.