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IntelliTrack RF
Terminal Emulation Guide
Rev. B, April 2006

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Contents

Terminal Emulation with the IntelliTrack RF Server

IntelliTrack RF provides RF Terminal Setup that is accessible to the user from the IntelliTrack application program group. In conjunction with the RF Server, terminal emulation allows your IntelliTrack RF application to connect to a portable Windows® CE and CE.NET device. Prior to transferring data between the desktop computer and a portable CE or CE.NET device, it is essential to establish the correct CE or CE.NET device portable settings.

Configuring LXE® with IntelliTrack RF

The IntelliTrack RF application may be used with a LXE® MX3-CE device (Windows CE 3.0) by using the LXE RFTerm application with the LXE device. In order for it to work together properly, you must configure the LXE RFTerm application as outlined in the steps below.

1. Install the **RFTerm.cab** file on the LXE MX3-CE terminal.

Note: If it is already installed, make sure you have version `RFTRMPCE.1Hd` *or higher and the build is* `20040621.1Hd` *or higher.*

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2. Open the RFTerm application on the LXE device desktop by double-clicking on the **LXE RF Term icon** or clicking **Start** > **Programs** > **LXE RF Term** from the **Start** menu.
3. Next, select **Session** > **Configure** from the menu to open the Configure screen.
4. At the Configure screen, select the **Connection** tab to bring this area to the front.
5. In the **Host Type** section of the screen, select **VT220** to be the **Host** type.
6. Next, enter the **Host IP Address** (i.e., the address of the computer running the RF server) in the **Host Address** field.
7. In the **Terminal Device** field, click the drop-down arrow and select **VT100** from the list that appears.
8. In the **Telnet Port** field, the setting should be **23** (the default setting). If the setting is another number, enter **23** in this field.

9. Next, tap the **VT Config** button. The VT Configuration dialog box opens.
10. Click the **Modes** tab to bring this tab to the front. Check the **Local Echo** check box found in the bottom right corner of the screen.
11. Next, click the **Options** tab to bring this tab to the front.
12. Click the drop-down arrow in the **Send** field and select **Line Buffered** from the list that appears.
13. Click the **OK** button in the top right corner of the screen to close the VT Configuration dialog box. You are returned to the Configure Screen. (Note that clicking the **X** icon in the top right corner of the screen will close the VT Configuration dialog box and cancel all changes made on that screen.)
14. In the Configure Screen, tap the **FNKeys** tab to bring this tab to the front. [Tap the **right arrow** (**>**) at the top right edge of the screen twice to display the **FNKeys** tab.] The **Function key mappings** appear.
15. Map Function Keys **F1** through **F10**, according to the values listed in the table below:

TABLE 1. LXE Terminal Function Key Values

Function Key	Value
F1	^[OP^M
F2	^[OQ^M
F3	^[OR^M
F4	^[OS^M
F5	^[OM^M
F6	^[[17^M
F7	^[[18^M
F8	^[[19^M
F9	^[[20^M
F10	^[[21^M

To add or edit a mapped value to a function key, select the desired **function key** from the drop-down list (i.e., **F1**, **F2**, **F3**, etc.) and enter the **value** (ASCII character sequence) according to Table 1 in the text box next to it via the LXE device keyboard. Tap the **Add** button. The value will appear in the **FNKey/Action** table. Once function keys **F1** through **F10** are mapped according to Table 1, tap **OK** to close the Configure screen.

16. Select **Session** > **Connect** to connect to the server. A blank screen appears. Enter **STARTRFS** on the LXE Keyboard to start the RF Server and then tap **Enter**.
17. Once the RF Server connection is established, enter your **IntelliTrack RF Login**.

Configuring Wavelink TelnetCE with IntelliTrack RF

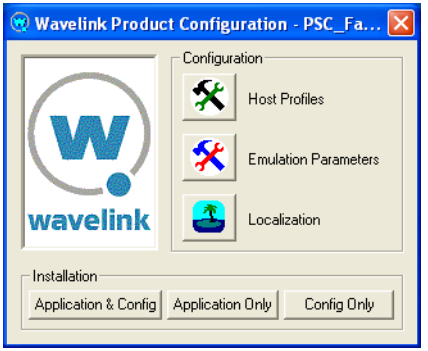
The IntelliTrack RF application may be used with Wavelink TelnetCE to work with IntelliTrack RF on a Falcon® 4420 device or a Symbol® MC 9000 device. In order for it to work together properly, you must configure Wavelink TelnetCE after it is installed on your PC.

1. Open the Wavelink TelnetCE Client installation utility on your PC by double-clicking on the **Wavelink TelnetCE** desktop shortcut icon;

   —Or—

   by clicking **Start** > **Programs** > **Wavelink TelnetCE** > **Wavelink TelnetCE program**.

   The Wavelink Product Configuration screen appears

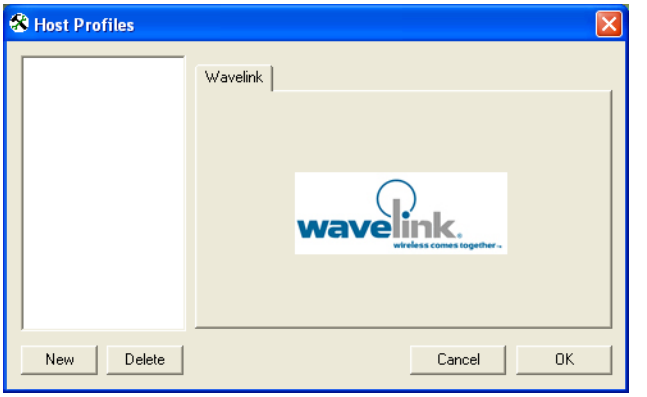


Configuring the Host Profiles

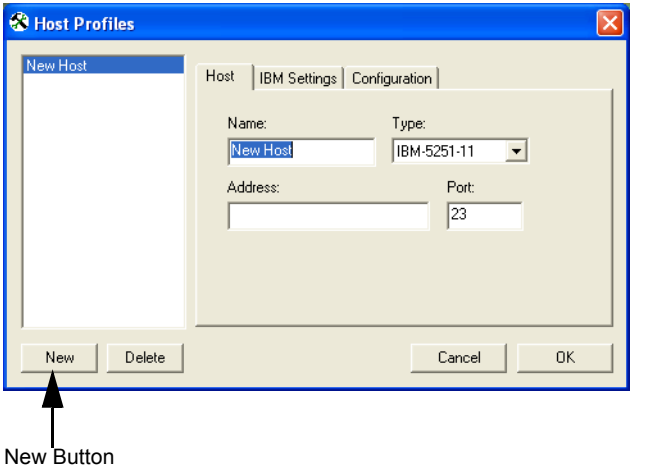
Begin by configuring the host profiles according to the instructions below:

1. Click the **Host Profiles** button found in the **Configuration** section of the Wavelink Product Configuration screen.

The Host Profiles screen appears.



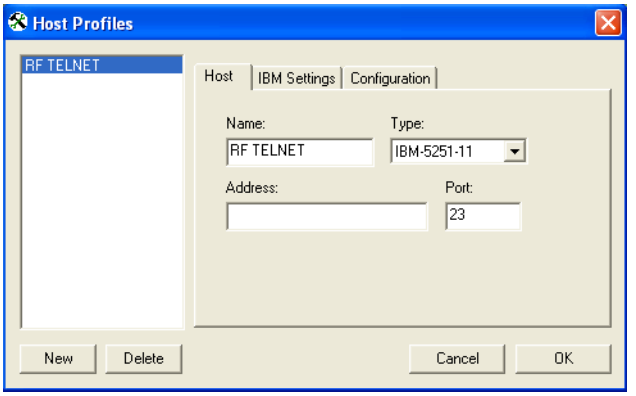
2. Click the **New** button to add the host profile name that you want to configure.



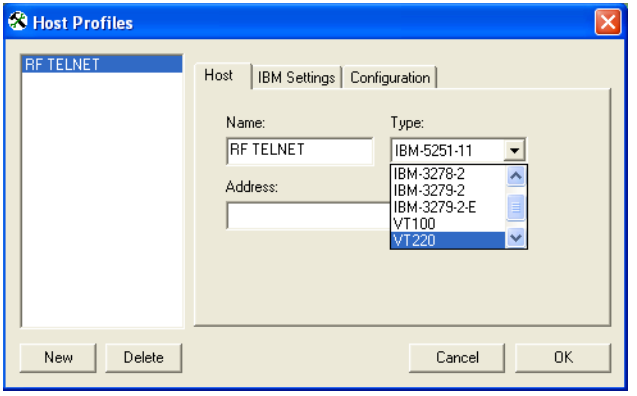
- The **Profile Configuration** selection tabs appear on the screen. The **Host** tab is to the front

3. In the **Host** tab portion of the screen, name the host profile by entering the desired name in the **Name** field. In our example, we will name the

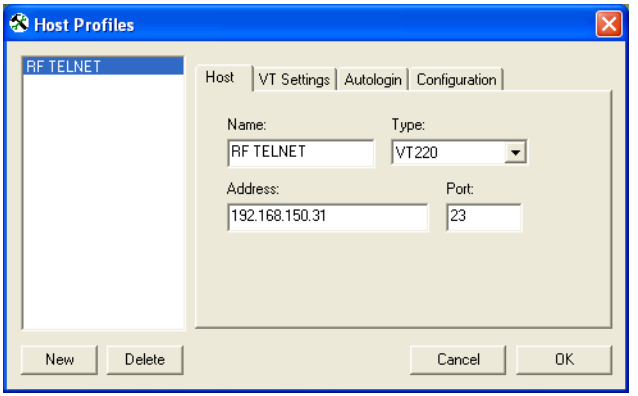
host profile **RF TELNET**. (You may name the host profile something else, if desired.)



4. Click the drop-down arrow in the **Type** field and select **VT220** from the list that appears.



5. Enter the host address (i.e., the address of the computer running the RF server) in the **Address** field.

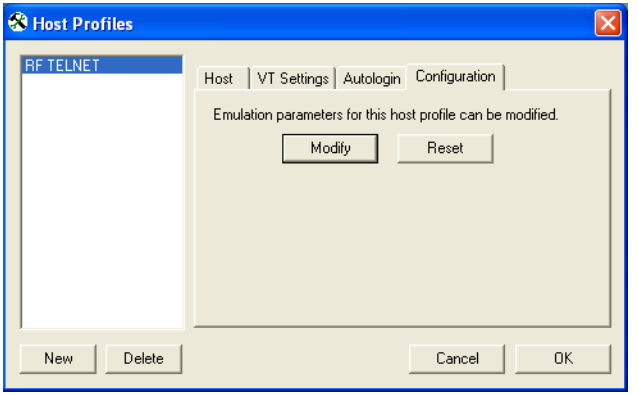


6. The **Port** setting should be **23** (the default setting). If the setting is another number, enter **23** in the **Port** field.

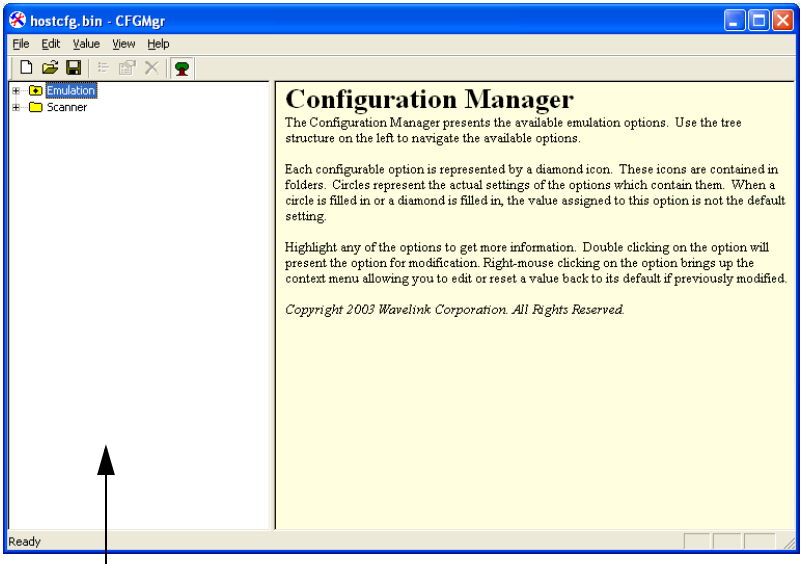
Modifying the Local Echo Setting

Once the host profiles are configured, turn on the **Local Echo** setting.

1. At the Host Profiles screen, click the **Configuration** tab to bring this tab to the front.



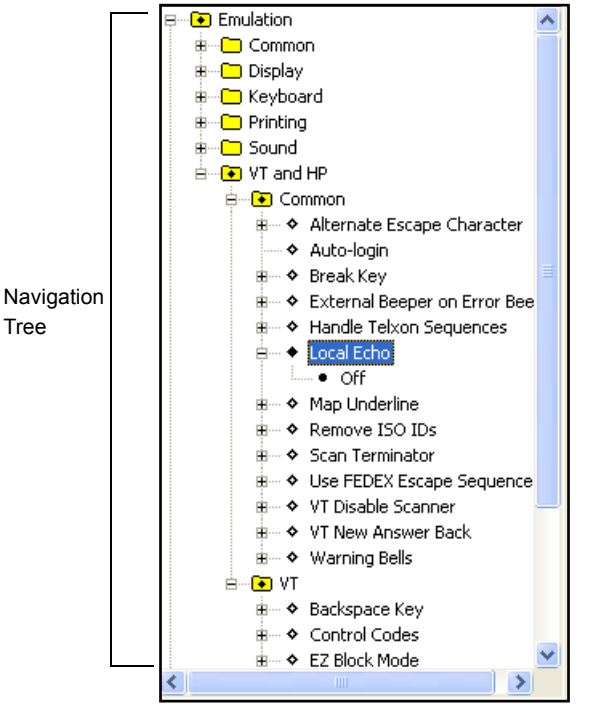
2. In the **Configuration** tab of the Host Profiles screen, click the **Modify** button. The hostcfg.bin-CFGMgr screen appears.



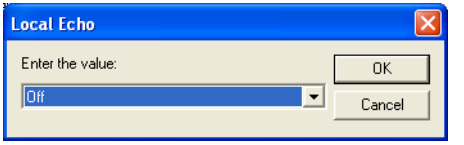
The left pane of the screen contains a navigation tree.

3. To modify the **Local Echo** setting, click the **plus sign** (+) next to the **Emulation** folder in the navigation tree found in the left pane of the screen. The contents of this folder display. Next, click the **plus sign** (+) next to the **VT and HP** folder. The contents of this folder display. Next, click the **plus sign** (+) next to the **Common** folder. The contents of this

folder display. Next, click the **plus sign** (+) next to the **Local Echo** file to view the **Local Echo** setting. By default, this setting is off.



4. If Local Echo is turned off, you must turn it on. To turn on Local Echo, select **Local Echo** in the navigation tree view (left pane of the screen) and then right-click. A right-click menu appears.
5. Select **Edit** from the right-click menu to edit the setting. A Local Echo dialog appears.

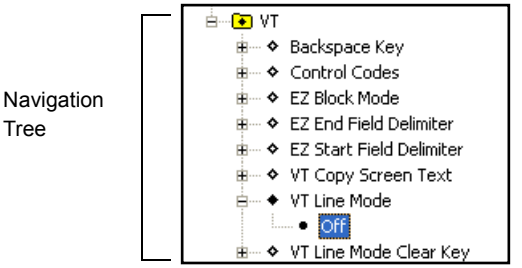


6. Click the drop-down arrow underneath the **Enter the value field** and select **On** from the choices that appear.
7. Click **OK** to close the Local Echo dialog box. The Local Echo setting in the hostcfg.bin-CFGMgr Screen should now be **On**.
8. Click **File** > **Save** to save the Local Echo setting.

Modifying the VT Line Mode Setting

The **VT Line Mode** Setting also needs to be **On**.

1. To modify the **VT Line Mode** setting, click the **plus sign** (+) next to the **Emulation** folder in the navigation tree found in the left pane of the hostcfg.bin-CFGMgr screen. The contents of this folder display. Next, click the **plus sign** (+) next to the **VT and HP** folder. The contents of this folder display. Next, click the **plus sign** (+) next to the **Common** folder. The contents of this folder display. Next, click the **plus sign** (+) next to the **VT** folder. The contents of the folder display. Click the **plus sign** (+) next to the **VT Line Mode** file to view the **VT Line Mode** setting. By default this setting is off.



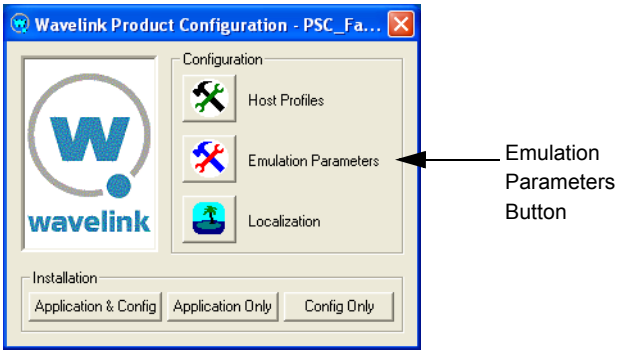
2. If **VT Line Mode** is turned off, you must turn it on. To turn on **VT Line Mode**, select **VT Line Mode** in the navigation tree (found in the left pane of the screen) and then right-click. A right-click menu appears.
3. Select **Edit** from the right-click menu. A VT Line Mode dialog appears.

4. Click the drop-down arrow underneath the **Use VT Line Mode?** field, and select **On** from the choices that appear.
5. Click **OK** to close the VT Line Mode dialog box. The VT Line Mode setting should now be **On**.
6. Select **File** > **Save**, or click the **Save** button to save your settings in the hostcfg.bin-CFGMgr screen.
7. Select **File** > **Exit** to close the hostcfg.bin-CFGMgr Screen and return to the Host Profiles dialog box.
8. Close the Host Profiles dialog box by clicking the close icon (**X**) in the top right corner of the screen.

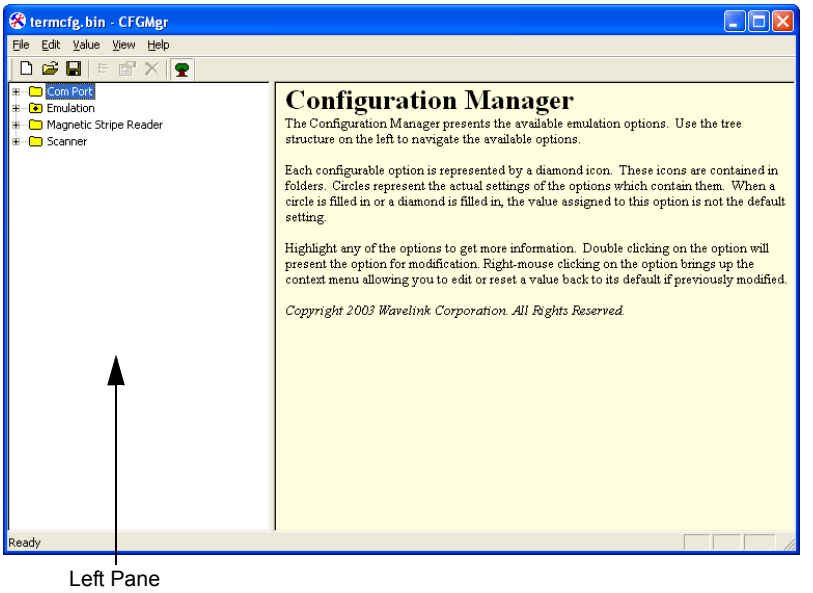
Configuring the Emulation Parameters

The Emulation Parameters are reached from the Wavelink Product Configuration Screen.

From the Wavelink Product Configuration screen, click the **Emulation Parameters** button:



The termcfg.bin-CFGMgr screen appears:



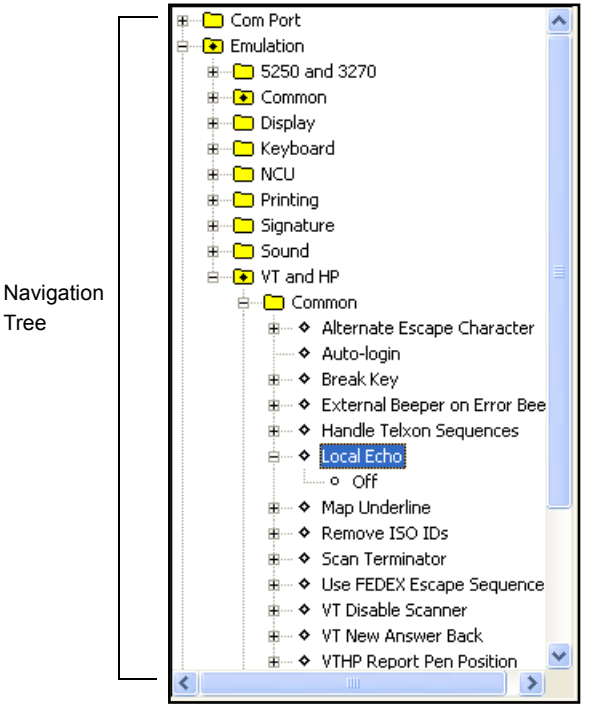
The left pane of the screen contains a navigation tree.

Modifying the Local Echo Setting

The Local Echo setting must also be turned on for the emulation parameters.

You may turn on these settings from the termcfg.bin-CFGMgr screen (see *"Configuring the Emulation Parameters" on page 10*).

1. To modify the **Local Echo** setting, click the **plus sign** (+) next to the **Emulation** folder found in the navigation tree in the left pane of the termcfg.bin-CFGMgr screen. The contents of this folder display. Next, click the **plus sign** (+) next to the **VT and HP** folder. The contents of this folder display. Next, click the **plus sign** (+) next to the **Common** folder. The contents of this folder display. Next, click the **plus sign** next to the **Local Echo** file to view the **Local Echo** setting. Local Echo is turned **off** by default.



2. If Local Echo is turned off, you must turn it on. To turn on Local Echo, select **Local Echo** and right-click. A right-click menu appears.

3. Select **Edit** from the right-click menu. A Local Echo dialog appears.

4. Click the drop down arrow underneath the **Enter the value** field and select **On** from the choices that appear.
5. Click **OK** to close the Local Echo dialog box. The Local Echo setting should now be **On**.
6. Click **File** > **Save** to save the Local Echo setting.

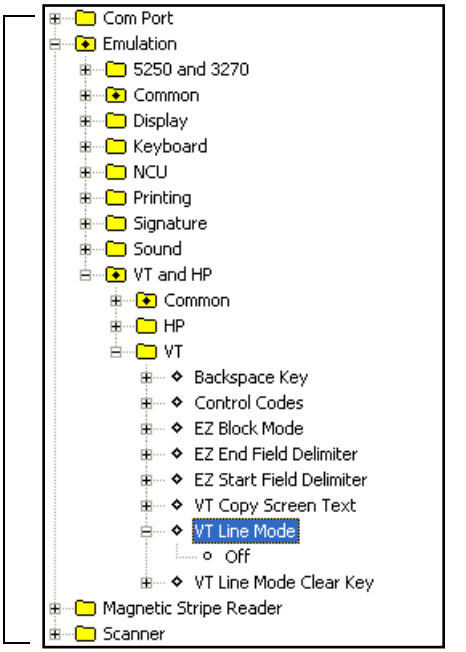
Modifying the VT Line Mode Setting

The VT Line Mode setting also needs to be turned on.

1. To modify the **VT Line Mode** setting for emulation parameters, click the **plus sign** (+) next to the **Emulation** folder in the navigation tree found in the left pane of the termcfg.bin-CFGMgr screen. The contents of the folder display. Next, click the **VT and HP** folder. The contents of the folder display. Next, click the **VT** folder. The contents of the folder display. Next, click the drop down arrow next to the **VT Line Mode** selec-

tion to view the **VT Line Mode** setting. (The VT Line Mode setting is turned off by default.)

Navigation Tree



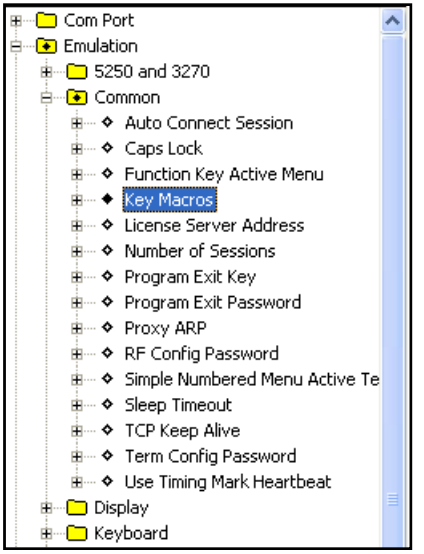
2. If **VT Line Mode** is turned off, you must turn it on. To turn on VT Line Mode, select **VT Line Mode** in the navigation tree view (left pane of the form) and then right-click. A right-click menu appears.
3. Select **Edit** from the right-click menu. A VT Line Mode dialog appears.
4. Click the drop down arrow underneath the **Use VT Line Mode?** field and select **On** from the choices that appear.
5. Click **OK** to close the VT Line Mode dialog box. The VT Line Mode setting should now be On.
6. Click **File** > **Save** from the menu bar to save this setting.

Adding Key Macros

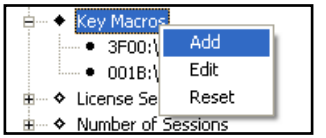
You need to map the **F5** key and the **ESC** key. To map these keys, continue working at the termcfg.bin-CFGMgr screen:

1. From the termcfg.bin-CFGMgr screen, click the **plus sign** next to the **Emulation** folder in the navigation tree found in the left pane of the screen. The contents of this folder display. Next, click the **plus sign** next

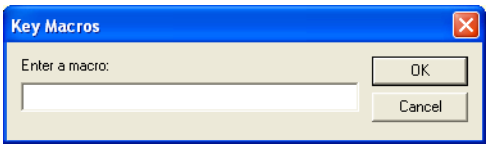
to the **Common** folder. The contents of this folder display. Next, click the **Key Macros** selection to display the **Key Macros** settings.



2. To add a mapping, select **Key Macros** in the navigation tree, and then right-click.
3. A right-click menu appears:

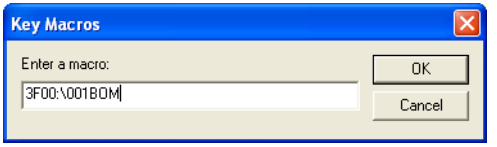


Select **Add** from the right-click menu.A Key Macros dialog appears:

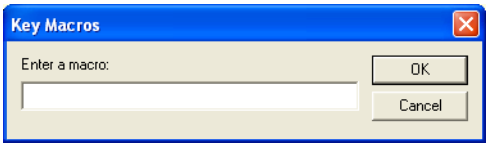


Note: When entering the macro, you must enter the exact text string with no blank spaces before or after it. Otherwise, the macro will not function properly.

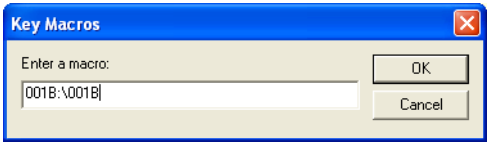
4. To map the **F5** key, enter `3F00:\001BOM` in the field underneath **Enter a macro**. Click the **OK** button to close the Key Macros dialog box.



5. The mapping will appear in the navigation tree, underneath the **Key Macros** listing.
6. To map the **ESC** key, select **Key Macros** in the navigation tree, and then right-click.
7. A right-click menu appears. Select **Add** from the right-click menu. A Key Macro dialog appears:



8. To map the **ESC** key, enter `001B:\001B` in the field underneath **Enter a macro**. Click the **OK** button to close the Key Macros dialog box.



9. The mapping will appear in the navigation tree, underneath the **Key Macros** listing.

10. Click **File** > **Save** from the menu bar to save your settings.
11. Click **File** > **Exit** from the menu bar to close the termcfg.bin-CFGMgr screen.

Checking RF Server Settings

Next, make sure you have enabled Telnet-Line Mode support in the RF Server:

1. Click **Start** > **Programs** > **IntelliTrack** > **IntelliTrack Application** > **IntelliTrack Application RF Server**. The IntelliTrack RF Server application opens on the desktop computer.
2. Next, select **Control** > **Options** from the menu bar to open the Options screen.
3. Click the **Utilities** tab to bring this section to the front.
4. Mark the **Telnet-Line Mode Support** check box to enable Telnet support.
5. Click the **Close** button to close this screen and save your changes.

When you restart the IntelliTrack WMS RF Server application, the change will be enacted.

Connecting to the RF Server

1. Turn on the Falcon 4420 device or the Symbol MC 9000 device. You will see a **Wavelink** icon on the device desktop.
2. Double-click the **Wavelink** icon to launch the application and connect to RF Server.
3. A blank screen appears. Enter **STARTRFS** and then tap **Enter** to connect to the RF Server.
4. Once the RF Server connection is established, enter your **IntelliTrack RF Login**.

If you have trouble establishing a host connection on the handheld device, please refer to the following sections: *"Checking your Device-PC Connection" on page 16* and *"Verifying Settings on the TelnetCE Client" on page 17*.

Checking your Device-PC Connection

To ensure the Falcon 4420 device or the Symbol MC 9000 device is connected to the PC:

1. From the Wavelink Product Configuration Screen, click the **Config Only** button.
2. A dialog appears indicating whether your device is connected to the desktop computer (or PC).

Verifying Settings on the TelnetCE Client

*Important: If you receive a "**No Host Connection**" message when you open the WaveLink Telnet session on your handheld device, and you are sure the device is connected to the PC, use this section as a troubleshooting tool for verifying your Telnet settings on the handheld.*

If you receive a "**No Host Connection**" message when you open the WaveLink Telnet session on your handheld device, your host profile and emulation settings may have not successfully transferred to the TelnetCE Client application.

You are able to view the host profile settings and the emulation parameters on the TelnetCE Client. This allows you to verify the host profile and emulation parameter settings in the TelnetCE client. If the settings did not transfer successfully, you may change them in the TelnetCE client.

Important: We do not recommend changing the host profile and emulation parameter settings in the TelnetCE Client unless you find out that the settings from the TelnetCE Client installation utility did not transfer to the TelnetCE Client.

1. Turn on the Falcon 4420 device or the Symbol MC 9000 device. You will see a **Wavelink** icon on the device desktop.
2. Double-click the **Wavelink** icon to launch the application and connect to RF Server.
3. If you receive a "**No Host Connection**" message, select **Term** > **Configure** > **Emulation**. An Input Password dialog box appears.
4. The system contains a default emulation password; it is **config**. In the **Input Terminal Config Password** field, enter the default system password: **config**.
5. Select **OK** to close the dialog box.
6. The Settings dialog box for the session appears. Tap the **VTXX** tab to bring this portion of the dialog box to the front. Be sure the **Local Echo** check box is marked; this indicates that Local Echo is turned enabled (or on).
7. Click **OK** to close the Settings dialog box and return to the Main window.
8. Select **Term** > **Configure** > **Host Profiles**. An Input Password dialog box appears.
9. The system contains a default host profiles password; it is **system**. In the Input Host Config Password field, enter the default system password: **system**.

10. Select **OK** to close the dialog box.
11. The Edit Host Profile dialog box appears. Select the host profile name that you want to verify. Make sure the host profile settings match what you entered in the Host Profiles screen in the TelnetCE installation utility on the PC. (Please refer to *"Configuring the Host Profiles" on page 4* for information about the Host Profiles screen in the TelnetCE installation utility.)

    The name entered in the **Alias** field of the Edit Host Profile dialog box is the host profile name; it must match the host profile name entered in the **Name** field of the Host Profiles screen**Host** tab of the TelnetCE installation utility on the PC.

    The Address entered in the **Address** field of the Edit Host Profile dialog box is the IP address of the computer running the RF server; it must match the IP address entered in the **Address** field of the Host Profiles screen**Host** tab of the TelnetCE installation utility on the PC.

    The port entered in the **Port** field must match the port entered in the Host Profiles screen**Host** tab of the TelnetCE installation utility on the PC. You must use the default port setting of **23**.

    In the **Emulation** field, verify the emulation mode; it must be **VT220**. (This is the **Type** setting in the Host Profiles screen**Host** tab of the TelnetCE installation utility on the PC.)
12. After you have verified the host profile settings and made any necessary changes to the host profile settings, select **Save**.
13. Select the Close icon (**X**) in the top right corner of the dialog box to close the Edit Host Profile dialog box and return to the Main screen.