

## Overview

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### Introduction

The Vanguard Software Loader application lets you transfer software images (.xrc files) from your personal computer to your Vanguard products. Software images can be transferred using these methods:

- ASCII Coldload via your personal computer's COM ports.
- Remote TFTP file transfers using your personal computer's Winsock compliant TCP/IP protocol stack.

This application operates under any 32-bit version of Microsoft Windows and is available on the Vanguide CD-ROM which accompanies Vanguard products.

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### What is Vanguard Software Loader?

Vanguard Software Loader is part of the Vanguide Application Set. This set also includes the Vanguide Application Manager which provides you with access to the other Vanguide applications.

#### ■ Note

For the purposes of demonstration, all graphic images in this document have been taken from the Vanguard Software Loader application running under Windows 95. Some images can appear slightly different when operating under different versions of Windows. However, the functionality of this application is the same as presented in this manual.

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### Intended Use

This document is intended for use by anyone wanting to install the Vanguard Software Loader and transfer software images for use on Vanguard products.

### In This Manual

Topic	See Page
<a href="#">Installing Vanguard Software Loader .....</a>	2
<a href="#">Software Loader Window .....</a>	3
<a href="#">Software Loader Dialog Window .....</a>	7
<a href="#">Downloading a Vanguide CD-ROM Image .....</a>	9
<a href="#">Downloading a Hard Drive Image .....</a>	10
<a href="#">Creating Image Disks for the 6500<sup>PLUS</sup> .....</a>	12
<a href="#">Obtaining Software Images From the Internet .....</a>	13
<a href="#">Loader Error Messages and OnLine Help .....</a>	14

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## Installing Vanguard Software Loader

### **Overview**

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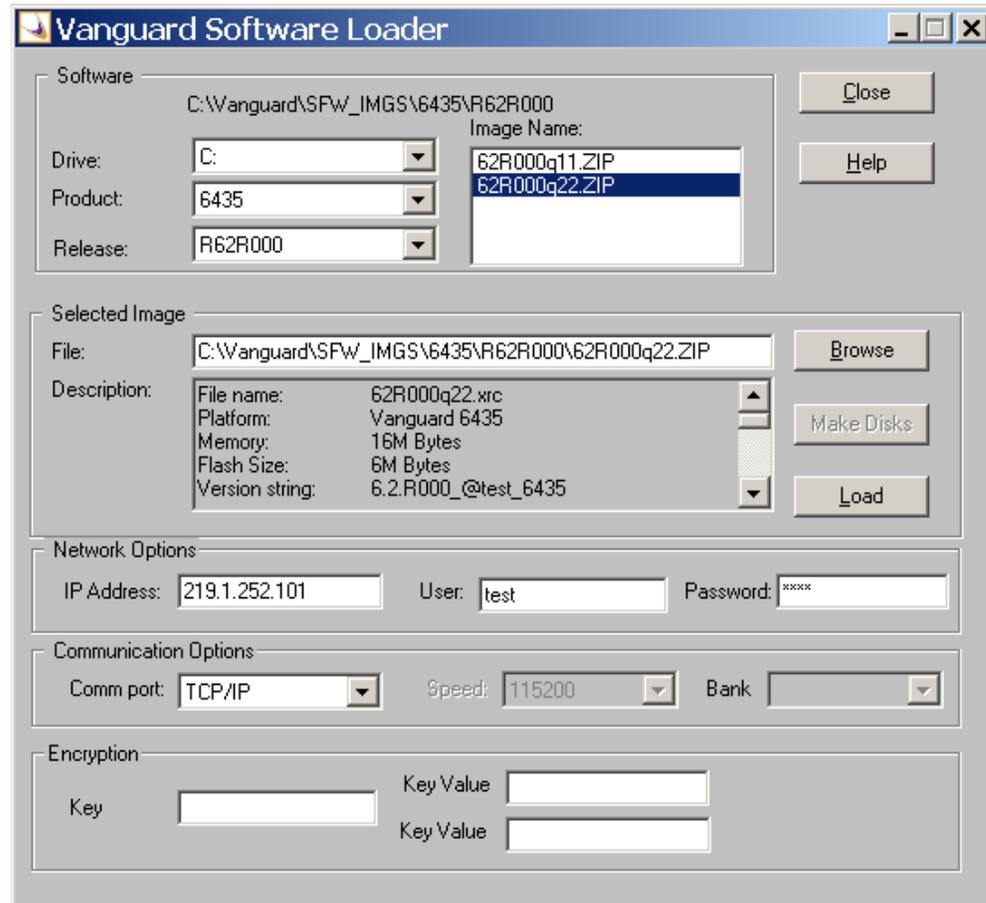
Vanguard Software Loader is installed on the hard drive of your computer. For further instruction on installing Vanguide applications, please refer to the Vanguide Applications Set Installation Guide.

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## Software Loader Window

### Main Window

The main Vanguard Software Loader window, as shown in Figure 1, appears when you launch the application.

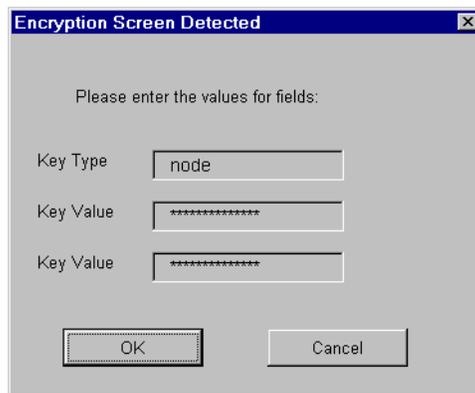


**Figure 1. Software Loader Main Window**

#### ■ Note

The Encryption Area is grayed out if the last Product selected in this window did not support encryption. If you select a Vanguard product that supports encryption (and is loaded with the Security license), but you do not fill in the encryption area, the Encryption Screen Detected dialog appears (see Figure 2).

If you select a Vanguard product that supports encryption, but you did not buy the security license, you might have to deselect the Encryption and IPSEC checkbox.



**Figure 2. Encryption Screen Detected Dialog**

### Using The Main Window

There are five functional groups in the main window:

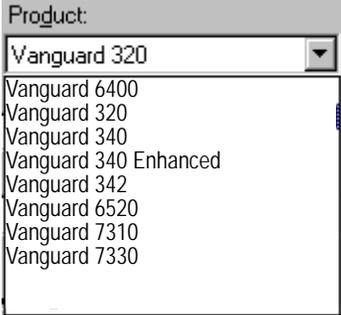
- Software
- Selected Image
- Network
- Communication
- Encryption

The right side of the main window contains these buttons:

- Close - Closes and exits the Loader application.
- Help - Invokes Loader application help.
- Browse - Allows you to browse your system to select the desired files.
- Make Disk - Creates a 6500<sup>PLUS</sup> NSO disk.
- Load - Loads software into your node.

This table explains how to use the fields, lists, and buttons of the Loader main window:

<b>Window Item</b>	<b>Purpose</b>
<b>Software-Drive:</b>	<p>Identifies the disk or CD-ROM where the software image files are located. Click in this field to allow Loader to scan for current disk/CD drives, then select the drive from the list.</p> <p><b>■Note</b> You must have a Vanguard CD-ROM inserted in your CD drive if you wish to obtain images from that source.</p>

<b>Window Item</b>	<b>Purpose (continued)</b>
<p><b>Software-Product:</b></p> 	<p>Lists all the Vanguard products found on the selected drive. Select the Vanguard product for which you want to obtain an image.</p>
<p><b>Software-Release:</b></p>	<p>Lists all supported software releases for the selected product type. Select the release for which your download image is made.</p>
<p><b>Software-Image Name:</b></p>	<p>Lists all software image files for the selected combination of product and release. Select an appropriate image to be downloaded.</p> <p>Image names have a default extension of .xrc or .zip. Only files with these extensions are listed in the Image Name list. Image files with .zip extensions contain compressed images along with their descriptor files (.des extensions).</p>
<p><b>Selected Image-File:</b></p>	<p>Lists the selected image path and filename.</p>
<p><b>Selected Image-Description:</b></p>	<p>Displays a description of the selected image file. If there is no descriptor file associated with the selected image, the field displays the <b>Description Not Available</b> message.</p>
<p><b>Selected Image-Browse:</b></p>	<p>Invokes a standard Windows file selection dialog box. <b>Use this box when you do not know where to locate your download image.</b></p> <p>■<b>Note</b> Before selecting this button, ensure that there is a product selected in the Product drop-down list. Otherwise, the download operation aborts.</p>
<p><b>Selected Image-Make Disk:</b></p>	<p>Clicking this button allows you to create software image diskettes for your 6500<sup>PLUS</sup>.</p> <p>■<b>Note</b> The 6500<sup>PLUS</sup> is only supported in Release 5.2 and earlier software.</p>
<p><b>Selected Image-Load:</b></p>	<p>Invokes the image download sequence using parameters found in the Communications Panel.</p>
<p><b>Network-Connection:</b></p>	<p>Designates the node address of your Vanguard product. When using TFTP, you must specify the IP Address of the Vanguard product.</p>

<b>Window Item</b>	<b>Purpose (continued)</b>
<b>Network-User:</b>	Designates the user name for your Vanguard product.
<b>Network-Password:</b>	Designates the password for your Vanguard product.
<b>Communication-Comm Port:</b>	Used to select the communications port for your download operation. You can choose your personal computers COM port (for serial direct connection transfer), or TCP/IP (for TFTP transfer).  <b>■Note</b> All available personal computer COM ports are listed. If the desired COM port is not available (for example, if it is used by another program), quit the program in use and restart the Loader application. TCP/IP is listed if the TCP/IP software is running at Loader start-up.
<b>Communication-Speed:</b>	Use this pop-up menu to select the desired download speed.  <b>■Note</b> This menu item is not available when a TCP/IP COM port is selected.
<b>Encryption:</b>	Use these fields to designate encryption values for your Vanguard product.

## Software Loader Dialog Window

### Overview

Once you have used the main window to select an image file to download, and the **Load** button has been clicked, the Software Loader progress bar appears. This updates you on the image download sequence and alerts you to any problems that might occur. This window also provides a **Cancel** button for halting the download process.

### Window Messages

This table details messages that might be displayed during an image download.

<i>Window Message</i>	<i>Meaning</i>
<b>Connecting to the Control Panel of the attached device.</b>	The Loader application is establishing a session with the attached device. Devices must be forced into a specific state in order to receive new software images. The Loader accomplishes this by first accessing the attached device's Control Panel.
<b>Preparing the attached device to receive the new software image at &lt;speed&gt; bps.</b>	The device is prepared to receive the selected software image at the desired speed. During this step, the Loader configures the device to accept a download at the selected speed.
<b>Please wait while the existing software image is erased in the attached device.</b>	The device is in the process of deleting the existing software.
<b>Wait, Initializing Raptor for TFTP transfer.</b>	Used for 650D devices only. 650D devices need to be reset into a TFTP mode before accepting the TFTP download.
<b>Transferring the new software image to the attached device at &lt;speed&gt; bps. &lt;image filename&gt;</b>	The device is now accepting the image download via a personal computer COM port ASCII transfer.
<b>Please wait while erasing flash in the node, this process can take a few minutes.</b>	The device is deleting existing software prior to a TFTP transfer.
<b>Transferring the new software image &lt;image filename&gt; to the device using TFTP.</b>	The device is now accepting the image download via a TFTP transfer.
<b>Please wait while the attached device is being reset.</b>	The device is being reset. This message can occur several times during and after the image download. The amount of times a device is reset is dependent on the device type.
<b>The product selected: &lt;product type&gt;, and the product reported by the attached device do not match.</b>	The image device type does not match the physical device type. Return to the Loader Main window and select the proper image type.
<b>Software image has been successfully transferred (total transfer time: MM minutes and SS seconds).</b>	Indicates a successful image download.

## Software Loader Dialog Window

<b>Window Message</b>	<b>Meaning (continued)</b>
<b>Disconnecting from the attached device. Please wait...</b>	Indicates that the Loader Application is logging out of the attached device following a successful download.

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## Downloading a Vanguide CD-ROM Image

### Overview

This section explains how to download a software image from the Vanguide CD-ROM.

The software image files provided on the Vanguide CD-ROM are located in a predefined directory structure. Each image is designed for a specific Vanguard product and software release. Their physical location on the Vanguide CD-ROM is determined by those two attributes.

### Procedure

Use this procedure to obtain and download a software image from your Vanguide CD-ROM:

<b>Step</b>	<b>Action</b>
<b>1</b>	Insert the Vanguide CD-ROM in your CD Drive, run the UNLOCK.EXE file from the Install directory, and unlock the software with your Applications Ware software license. Refer to the “Unlocking Software Images” section in the <i>Vanguide Application Set Installation Manual</i> (Part Number T0056) for additional information.
<b>2</b>	Access the Software Loader main window.
<b>3</b>	Click on the Drive field. The system checks to see which drives are available.
<b>4</b>	Select the Vanguard product from the Product drop-down list.
<b>5</b>	Select the release number from the Release drop-down list.
<b>6</b>	Select the image name from the Image Name drop-down list.
<b>7</b>	If you are connected via the personal computer’s COM port, enter the address for the Vanguard product in the Network Connection: box. If you are using TCP/IP, enter the IP Address.
<b>8</b>	Enter the user and password for the Vanguard product in the User and Password boxes.  <b>■Note</b> If the Vanguard product does not use a user and password, leave the boxes empty. If it uses both a manager and a user password, enter the manager password and leave the User box empty.
<b>9</b>	Select a COM port or TCP/IP from the COM port pop-up menu.
<b>10</b>	Select the appropriate COM port speed from the Speed pop-up menu.  <b>■Note</b> This box is not available if you chose a TCP/IP COM port.
<b>11</b>	Fill in the values, if your Vanguard product is to be encrypted, for the Key Type, Key Value 1 and 2. If you leave them empty, and the device is encrypted, you are prompted to enter these values.
<b>12</b>	Click <b>Load</b> . The download commences.  <b>■Note</b> Software Loader messages inform you of any problems with the download.

## Downloading a Hard Drive Image

### Overview

Software images can be obtained from several sources. This section explains how to download a software image from either your personal computers hard drive or a network drive.

■ **Note**

Although this procedure does not let you obtain images from the Vanguide CD-ROM, the CD-ROM must still be inserted and available to provide device transfer software files.

### Procedure

Use this procedure to obtain and download a software image from your hard drive or network drive.

■ **Note**

This method does not verify if the selected image is the correct version for the Vanguard product. Ensure that you have selected an appropriate image file before you click **Load**.

<b>Step</b>	<b>Action</b>
<b>1</b>	Insert the Vanguide CD-ROM in your CD Drive.
<b>2</b>	Access the Software Loader main window.
<b>3</b>	Click on the Drive field. The system checks to see which drives are available.
<b>4</b>	Select the appropriate drive designator for your hard drive.
<b>5</b>	Select the device type to be downloaded from the Product pop-up menu.
<b>6</b>	Select the release number from the Release drop-down list.
<b>7</b>	Select the image name from the Image Name drop-down list.
<b>8</b>	Click <b>Browse</b> button to locate the image you wish to download, select the image, and click <b>OK</b> .
<b>9</b>	If you are connected via the personal computer's COM port, enter the address for the Vanguard product in the Network Connection box. If you are using TCP/IP, enter the IP Address.
<b>10</b>	Enter the user and password for the Vanguard product in the User and Password boxes.  ■ <b>Note</b> If your Vanguard product does not use a user and password, leave the boxes empty. If it uses both a manager and a user password, enter the manager password and leave the User box empty.
<b>11</b>	Select a COM port or TCP/IP from the COM port drop-down list.
<b>12</b>	Select the appropriate COM port speed from the Speed drop-down list.  ■ <b>Note</b> This list is not available if you chose a TCP/IP COM port.

<b>Step</b>	<b>Action (continued)</b>
13	Fill in the values, if your Vanguard product is to be encrypted, for the Key Type, Key Value 1 and 2. If you leave them empty, and the device is encrypted, you are prompted to enter these values.
14	Click <b>Load</b> . The download commences.  ■ <b>Note</b> The Software Loader dialog box informs you of any problems with the download.

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## Creating Image Disks for the 6500<sup>PLUS</sup>

### Overview

The Software Loader can be used to create software image diskettes for your 6500<sup>PLUS</sup>. It can create diskettes for either economy or extended software images. When creating images for these devices, the Software Loader application first creates temporary images and then prompts you to insert diskettes for the final image transfer to the media.

■ **Note**

The 6500<sup>PLUS</sup> is only supported in release 5.2 and earlier software.

■ **Note**

Before starting this procedure, ensure that you have at least two 1.44 MB pre-formatted diskettes. The transferred image files maintain their .xrc or .zip filename extensions.

### Procedure

Use this procedure to create device software image diskettes.

■ **Note**

This method does not verify if the selected image is the correct version for the 6500<sup>PLUS</sup>. Ensure that you have selected an appropriate image file before you click **Load**.

<b>Step</b>	<b>Action</b>
<b>1</b>	Insert the Vanguard CD-ROM in your CD Drive.
<b>2</b>	Access the Software Loader main window.
<b>3</b>	Click on the Drive text box. The system checks to see which drives are available.
<b>4</b>	Select the appropriate disk drive designator.
<b>5</b>	Select the device type (6500 <sup>PLUS</sup> ) from the Product drop-down list.
<b>6</b>	Select the release number from the Release drop-down list. As an alternative, you can use the <b>Browse</b> button to locate the image file.
<b>7</b>	Select the image name from the Image Name drop-down list.
<b>8</b>	Click <b>Make Disks</b> and follow the on-screen instructions.

## Obtaining Software Images From the Internet

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### Overview

Vanguard Managed Solutions maintains a listing of software images on the following web site: <http://www.vanguardms.com>  
If you download these images from the web, you must place them in the appropriate hard drive sub-directory.

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### Download Directory

Always place your downloaded images in your personal computer's **C:\Vanguard\SFW\_IMGS\ProductType\DOWNLOAD** directory (where ProductType is the correct device type directory; for example, V320 for Vanguard 320). The images are stored this way so Software Loader can locate and display the list of available images in the Release drop-down list.

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## Loader Error Messages and OnLine Help

### **Overview**

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The Software Loader application generates error messages if it senses something has gone wrong. The best source for error message descriptions is the main window **Help** button. Selecting this button allows you to view the online Loader help files along with full error message descriptions.

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