

## Vanguard 7300 Series Software Advisory Notice Release 6.0.P02B

### Introduction

This notice contains information on software improvements made by Vanguard Applications Ware Release 6.0.P02B.

The Vanguard Application Ware Release 6.0.R00A CD-ROM is required to run this release.

### User Documentation

For the latest Vanguard user documentation, including Software Release Notices visit this Vanguard Managed Solutions web site:

<http://www.vanguardms.com/documentation>

### Vanguard 7300 Series Patch

The 6.0.P02B patch is required for increased performance on the Vanguard 7300 series products. The table below lists the software configuration limits that have changed:

<b>Vanguard 7300 Series</b>	<b>Original Maximum Limits</b>	<b>New Maximum Limits</b>
<i>NAT Entries - Table Size</i>	255	1,023
<i>Number of Static Routes</i>	1,024	8,000
<i>Number of LCONS</i>	2,000	8,000
<i>Number of Mnemonic Table Entries</i>	2,000	8,000
<i>Outbound Translation Table Entries</i>	1,600	16,000
<i>Number of Multi-link PPP Profiles</i>	600	1,000
<i>Number of Bridge Link Entries</i>	250	1,000
<i>MAC Filter Table Entries</i>	300	1,200
<i>Transparent Bridge Forwarding Table</i>	8,000	16,000
<i>Number of Frame Relay SLAC Stations</i>	1,000	2,000



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## Software Improvements

### Introduction

This section describes specific improvements to the Applications Ware software for Release 6.0.P02B. Included are:

- Feature Enhancements
- Corrected Limitations
- Customer-initiated Change Requests

### Corrected Limitations and Change Requests

These Corrected Limitations and Change Requests were reported to Vanguard Managed Solutions Customer Service. The Corrected Limitations and Change Requests listed in this table are incorporated into the Vanguard Applications Ware Release 6.0.P02B:

The Change Request Number and Limitation Number are numbers assigned by Vanguard Managed Solutions and are used exclusively for tracking purposes.

<b>Change Request Number</b>	<b>Limitation Number</b>	<b>Release Where Problem Was Reported</b>	<b>Interim Patch Release Replaced by Patch 6.0.P02B</b>	<b>Problem or Enhancement Description (7300 Platform)</b>
11441	DRFaa19826	6.0.R00A	N/A	BGP-4 routes are lost after port boot when the number of routes is larger than 768.
11474	DRFaa19911	6.0.R00A	N/A	BGP-4 dynamic memory errors develop when the BGP table size is set to 8,192. After 512 routes, dynamic memory allocation alarms occur and routes are no longer added to the table.

### Known Software Limitations

#### **Vanguard 7300 Node Crash when NAT is Enabled**

If a large number of NAT entries are configured (each with multiple interfaces), upon a Boot-Router-NAT-ALL command, the router could reset (with a FER) instead of just booting the NAT entries. (DRFaa20065)

*Workaround:* To avoid having the router reset, configure a single interface per NAT entry. If an entry requires you to apply multiple interfaces, you may configure the multiple entries, but the node may reset depending on those number of entries. After the node reset, the NAT entries will function normally.

#### **Vanguard 7300 Node Resets at Warm Boot after NAT is Enabled**

When configuring a NAT entry the router does not prevent you from entering an interface larger than the maximum configured IP interfaces available. If this is done, upon a boot, the node could go into a continuous reset condition. (DRFaa19879)

*Workaround:* While configuring a NAT entry, ensure that the interface number is less than or equal to the maximum number of IP interfaces available, as configured under IP Parameters. If the router does go into a continuous reset condition, the only alternative is to clear CMEM or boot from the alternate bank if possible.

### Vanguard 7300 Cannot Delete a NAT Translation Table Entry

Deleting a NAT translation entry through CLI does not have any effect (even when no errors are reported). (DRFaa20091)

*Workaround:* The Control Terminal Port (CTP) must be used in order to delete a NAT translation entry.

### Install the Patch Executable File

Use these steps to install the Release 6.0.P02B patch executable file:

<b>Step</b>	<b>Action</b>
<b>1</b>	If you have not already done so, install Vanguard Software Builder from any Vanguard Release 6.0.R00A CD-ROM.
<b>2</b>	Save the new patch file from Vanguard Managed Solutions (V60P02B.ZIP) to a local drive on your computer.
<b>3</b>	Use WinZip® to extract the ZIP file. The V60P02B.ZIP file contains the V60P02B.EXE file and a copy of this advisory notice in PDF format.
<b>4</b>	Run or open the V60P02B.EXE executable file from your local drive.
<b>5</b>	The patch executable file prompts you with installation instructions. Insert the Vanguard 6.0R00A CD-ROM into the CD-ROM drive and select its drive letter. Follow the installation instructions provided by the installer.

#### ■ Note

For more detailed patch installation instructions, refer to the *Vanguard Software Builder Manual* (Part Number T0030).

### Build an Image

After you install the patch executable file, you must build a custom release and load the custom image. This table provides general instructions for these procedures:

<b>Step</b>	<b>Action</b>
<b>1</b>	Using Vanguard Software Builder, build a custom Release 6.0.P02B patch image by selecting the appropriate patch (6.0.P02B). For example, from the <b>Release</b> drop-down menu, select features or options that you want to include in the image.
<b>2</b>	Load the custom image using the Vanguard Software Loader.

#### ■ Note

For detailed instructions on building a software image and using the Vanguard Software Loader, see the *Vanguard Software Builder Manual* (Part Number T0030) and the *Vanguard Software Loader Manual* (Part Number T0057).