Vanguard Applications Ware Release 6.1.T14A

Advisory Notice

Introduction

This notice contains information on software improvements and changes made by the Vanguard Applications Ware Release 6.1.R000 patch 6.1.T14A which is based on the Service Pak 6.1.S100. This notice supplements the *Vanguard Applications Ware Release 6.1.R000 Software Release Notice* (Part Number T0001-42).

Install the Patch Executable File

Follow these steps to install the Release 6.1.R000 patch 6.1.T14A executable file:

Step	Action
1	If you have not already done so, install Vanguard Software Builder from any Vanguide Release 6.1.R000 CD-ROM (Part Number 72608-30 A).
2	Download the V61T14A.ZIP file from Vanguard Managed Solutions, please save the file to a local drive on your computer. The V61T14A.ZIP file is available on the web at: **http://www.vanguardms.com/support/software_and_tools/ vanguard/special_releases/**
3	Use WinZip® to extract the ZIP file. The V61T14A.ZIP file contains the V61T14A.EXE, FLASHTL.EXE, VGNDTERM.EXE, UNLOCK.EXE, 7310/R61T14A/61T14T11.EXE 7310/R61T14A/61T14T12.EXE 7310/R61T14A/61T14T15.EXE 7330/R61T14A/61T14U11.EXE 7330/R61T14A/61T14U12.EXE 7330/R61T14A/61T14U15.EXE files, and a copy of this advisory notice and the hardware advisory notice (T0258) in PDF format.

T0259 A

Step	Action
4	Copy the FLASHTL.EXE (DRFaa20724) and VGNDTERM.EXE (DRFaa21028) to your Vanguide installation directory, C:\Vanguard\VANGUIDE. You will get a Windows message asking you to confirm the replacement of the existing files, click yes. ■**Note** Not mandatory in installing the patch. Required if the node has both Quad Voice, and FT1/E1 cards or requires datacapture from the terminal.
5	Run or open the V61T14A.EXE executable file from your local drive.
6	The patch executable file prompts you with installation instructions. Insert the Vanguide 6.1.R000 CD-ROM into the CD-ROM drive and select its drive letter. Follow the installation instructions provided by the installer.
7	Mandatory: Before unlocking the following files (which contain the default images) copy them as follows: From C:\V61T14A\7310\R61PT14A\61T14T11.EXE to C:\VANGUARD\SFW_IMGS\7310\R61PT14A\61T14T11.EXE From C:\V61T14A\7310\R61PT14A\61T14T12.EXE to C:\VANGUARD\SFW_IMGS\7310\R61PT14A\61T14T12.EXE From C:\V61T14A\7310\R61PT14A\61T14T15.EXE to C:\VANGUARD\SFW_IMGS\7310\R61PT14A\61T14T15.EXE From C:\V61T14A\7330\R61PT14A\61T14U11.EXE to C:\VANGUARD\SFW_IMGS\7330\R61PT14A\61T14U11.EXE From C:\V61T14A\7330\R61PT14A\61T14U12.EXE to C:\VANGUARD\SFW_IMGS\7330\R61PT14A\61T14U12.EXE From C:\V61T14A\7330\R61PT14A\61T14U15.EXE to C:\VANGUARD\SFW_IMGS\7330\R61PT14A\61T14U15.EXE Before loading the default software images, you must unlock the images by double click on the **UNLOCK.EXE utility.** You will be prompted to enter the serial number provided with the 6.1.R000 software license.

■**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:

Step	Action
1	Using Vanguard Software Builder, build a custom Release 6.1.R000 patch image by selecting the appropriate patch (6.1.T14A for example) from the **Release** drop-down menu. Select features or options that you want to include in the image.
2	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).

Viewing Alarms and Reports   Alarms and Reports appear in the CTP or in your network management system. For explanations of Vanguard alarms and fatal error reports (FERs), see the *Vanguard Alarms and Reports Manual* (Part Number T0005).

Vanguard 7300 CPU Card Upgrade   The Vanguard 7300 Series MCP750 (part number 75836G02) system cards are supported by software releases 6.1.T14A and greater. If you have a part number 75836G02 system card and are running older versions of release 6.1, a new 6.1 software patch is required (6.1.T14A). The system cards have a different revision PCI-PCI bridge than previous system cards (part number 75836G01). The new system cards are not being recognized by software older than 6.1.T14A. Software patch 6.1.T14A must be installed when using part number 75836G02.

Checking the Part Number Label   Figure 1 shows the revision label, located on the side of the unit.
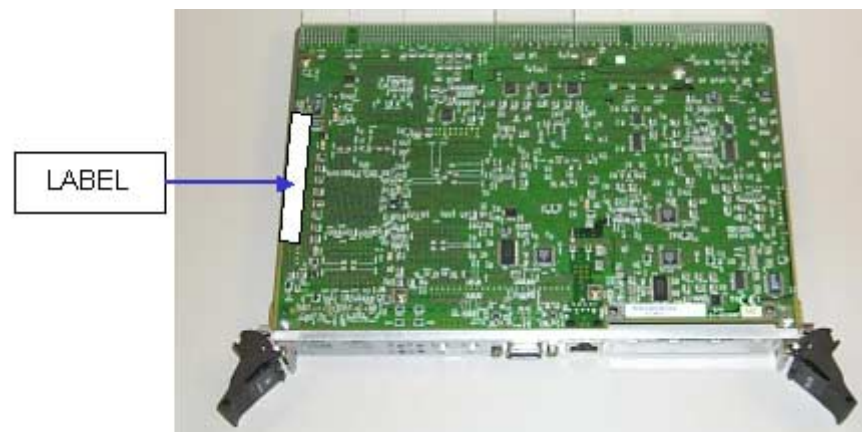

Figure 1. Part Number Label

S6.1.S100 New Enhancements	**Vanguard 6435 and 6455 Voice Switching Table Entry Increase**

An increase to the voice switching table entries from 3,000 to 6,000 on the Vanguard 6435/6455 is available with Service Pak 6.1.S100 and greater software. (DRFaa20092)

■ Note

Save your CMEM *before* configuring a large number of entries. If your CMEM becomes too large, you might not be able to save it. (DRCaa23348)

All Vanguards - Software Images Using TFTP

With Service Pak 6.1.S100 and greater software images, Vanguard Routers may now act as a TFTP server for CMEM and software image transfers. Using TFTP software on a PC, users may now upload the software image the node is currently running to the PC. Another aspect of the feature is a node to node download mechanism, where a single server node can download CMEM and software images to multiple client nodes (up to ten). (DRFaa20656)

■ Note

When using a TFTP application to connect to a Vanguard Router running release 6.0.R00A or greater software through its WAN link, use the WAN address instead of the internal or LAN address. (DRFaa21052)

For more information regarding the Vanguard TFTP Server, access the Vanguard Managed Solutions Product Documentation web site at:

http://www.vanguardms.com/documentation

The Vanguard TFTP Server document is listed under Operating Software Documentation. Release 6.2 and greater will include TFTP Server information in the *Installation and Coldloading Manual* (Part Number T0028).

Patch 6.1.T14A Change Requests and Software Improvements

Overview   The table below lists change requests and software improvements. Change requests reported to Customer Service have an assigned change request number, and, in most cases, interim patches are released to fix the problems. These change requests and software improvements are incorporated into the Vanguard Applications Ware Release 6.1.R000 Patch 6.1.T14A, and, where applicable, interim patch releases have been replaced by the Release 6.1.R000 Patch 6.1.T14A:

■**Note**

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

Change Request Number	Limitation Number	Release Where Problem Was Reported	Interim Patch Release Replaced by Release 6.1 Patch 6.1.T14A	Problem or Enhancement Description
11891	DRFaa21244	6.1R000	6.1.T14A	Vanguard 7300 Series MCP750 system cards, part number 75836G02 requires 6.1.T14A or greater software to run.

Service Pak 6.1.S100 Change Requests and Software Improvements

Overview

The table below lists change requests and software improvements. Change requests reported to Customer Service have an assigned change request number, and, in most cases, interim patches are released to fix the problems. These change requests and software improvements are incorporated into the Vanguard Applications Ware Release 6.1.R000 Service Pak 1 (6.1.S100), and, where applicable, interim patch releases have been replaced by the Release 6.1.R000 Service Pak 6.1.S100:

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

Change Request Number	Limitation Number	Release Where Problem Was Reported	Interim Patch Release Replaced by Release 6.1 Service Pak 6.1.S100	Problem or Enhancement Description
N/A	DRCaa22754	6.0iR00A	6.1.S100	All Vanguards - Central Voice Switching Table entry numbers display wrong in the statistics if blank entries exist.
N/A	DRCaa23101	6.0tR00E	6.2.R000	Vanguard 340 4FXO Input TLP range is not capable of an input level of over 1.0db.
N/A	DRCaa23318	6.1.R000	N/A	Vanguard 7300 Series error occurs, "port init failure due to AMI with 56K, not valid".
N/A	DRCaa23321	6.2iR00D	N/A	Vanguard 7300 Series VPMT statistics show a disconnected state for voice bypass DSO's mapped.
N/A	DRFaa20820	6.1R000		Vanguard 6455 Quad FXS fails off-line diagnostics when using a Revision E siLabs 3210 SLIC device.
N/A	DRFaa20945	6.1iS10B	N/A	Vanguard 340 TFTP server image copy function does not work with ETH port IP.
11134	DRFaa18688	5.6.T16A	5.6.T44B	Vanguard 6455 Voice ports failing. Voice channels lock up and a node boot is needed to recover.
11368	DRFaa19648	5.6.T2JA	5.6.T4FC	Vanguard 6400 Series voice problems due to random noise on the line and unclear voice calls.
11378	DRFaa19683	5.6.T2GB	5.6.T4FB	Vanguard 6560, 6400 Series FAX connection is failing on FAX machines with a NSF record longer than 30 bytes.

Change Request Number	Limitation Number	Release Where Problem Was Reported	Interim Patch Release Replaced by Release 6.1 Service Pak 6.1.S100	Problem or Enhancement Description (continued)
11482	DRFaa19923	5.6.T44A	6.0.T1PA	Vanguard 320 if a call is generated from a ISDN remote end, the port does not send a Call Proceeding message to the remote end.
11483	DRFaa19924	5.6.T44A	6.0.T1PA	Vanguard 320 is unable to receive calls due to incorrect filtering of the ISDN IEs.
11515	DRFaa20092	5.5.T2IA	N/A	Voice switching table entries need to be increased from 3,000 on the Vanguard 6435/6455.
11519	DRFaa20099	6.0.R00A	6.0.T1PA	Vanguard 6400 Series echo canceller is not working properly on the 4-port FXO cards.
11523	DRFaa20107	6.0.R00A	5.6.T4JA	Vanguard 6400 Series when NAT transfers the RIP V2 routes, it uses the routes network mask. It should use the routes subnet mask.
11534	DRFaa20141	5.6.R000	5.6.T4NA	Fax transmission is not working correctly from PSTN to PBX over the E1 Vanguard 6455 to a FXS port (directly connected on the same node).
11567 11571	DRFaa20174 DRFaa20181	5.6.T44C 5.6.T2GA	5.6.T4FA 5.6.T4FA	Vanguard 6400 voice calls passing from the central site to the remote site are getting disconnected with PRI cause code 47.
11578	DRFaa20202	6.0.P02A	6.0.T19C	Vanguard 7300 Series is receiving table overflow errors and the router needs to be rebooted.
11584	DRFaa20241	6.0.R00A	6.0.T14A	Vanguard 7300 Series voice port hangs in the IDLE_CON state.
11656 11657	DRFaa20489 DRFaa20490	6.0.S100 6.0.S100	N/A N/A	Vanguard 6400 Series node crashes with a "Program Exception Encountered" error.
11654	DRFaa20503	6.0.T16A	6.0.T1MA	A Vanguard 6400 block size greater than 2046 cannot cross TPA-X.25 to TPA-TCP. TPA-TCP locks up and needs to be rebooted.
11671	DRFaa20546	5.6.T16E	6.0.T1PA	Vanguard 6400 node crashes frequently when processing digital voice traffic.

Change Request Number	Limitation Number	Release Where Problem Was Reported	Interim Patch Release Replaced by Release 6.1 Service Pak 6.1.S100	Problem or Enhancement Description (continued)
11482	DRFaa19923	5.6.T44A	6.0.T1PA	Vanguard 320 if a call is generated from a ISDN remote end, the port does not send a Call Proceeding message to the remote end.
11483	DRFaa19924	5.6.T44A	6.0.T1PA	Vanguard 320 is unable to receive calls due to incorrect filtering of the ISDN IEs.
11515	DRFaa20092	5.5.T2IA	N/A	Voice switching table entries need to be increased from 3,000 on the Vanguard 6435/6455.
11519	DRFaa20099	6.0.R00A	6.0.T1PA	Vanguard 6400 Series echo canceller is not working properly on the 4-port FXO cards.
11523	DRFaa20107	6.0.R00A	5.6.T4JA	Vanguard 6400 Series when NAT transfers the RIP V2 routes, it uses the routes network mask. It should use the routes subnet mask.
11534	DRFaa20141	5.6.R000	5.6.T4NA	Fax transmission is not working correctly from PSTN to PBX over the E1 Vanguard 6455 to a FXS port (directly connected on the same node).
11567 11571	DRFaa20174 DRFaa20181	5.6.T44C 5.6.T2GA	5.6.T4FA 5.6.T4FA	Vanguard 6400 voice calls passing from the central site to the remote site are getting disconnected with PRI cause code 47.
11578	DRFaa20202	6.0.P02A	6.0.T19C	Vanguard 7300 Series is receiving table overflow errors and the router needs to be rebooted.
11584	DRFaa20241	6.0.R00A	6.0.T14A	Vanguard 7300 Series voice port hangs in the IDLE_CON state.
11656 11657	DRFaa20489 DRFaa20490	6.0.S100 6.0.S100	N/A N/A	Vanguard 6400 Series node crashes with a "Program Exception Encountered" error.
11654	DRFaa20503	6.0.T16A	6.0.T1MA	A Vanguard 6400 block size greater than 2046 cannot cross TPA-X.25 to TPA-TCP. TPA-TCP locks up and needs to be rebooted.
11671	DRFaa20546	5.6.T16E	6.0.T1PA	Vanguard 6400 node crashes frequently when processing digital voice traffic.

Change Request Number	Limitation Number	Release Where Problem Was Reported	Interim Patch Release Replaced by Release 6.1 Service Pak 6.1.S100	Problem or Enhancement Description (continued)
11673	DRFaa20585	6.0.T1EA	6.0.T1EB	Vanguard 6400 problem installing dual E1 into slot two. When using transparent CCS for E1 in slot 2, then booting the TBOP port, E1 crashes.
11683 11723 11769	DRFaa20635 DRFaa20705 DRFaa20883	6.0.R00A 6.0.T1CA 6.0.T16C	N/A 6.0.T1CB N/A	Vanguard 340 node crashed with "FAULT: Data TLB Miss Exception Encountered."
11734	DRFaa20724	6.1.R000	6.1.T01A	Vanguard 340, 6435/6455 Software builder problems occur when Quad FXS/FXO and FT1/FE1 features are selected.
11746	DRFaa20765	6.0.T1QA	6.0.T1QA	Vanguard 6400 - when a 2780 TPAD and 2780 device bid for the line at the same time a NAK/ACK loop is generated.
11757	DRFaa20818	6.0.S100	N/A	Vanguard 340 lost CMEM due to attached modem with echo enabled.
11780	DRFaa20961	6.0.sp1	6.0.T1TA	Vanguard 6455 QSIG E1 sending STATUS with cause 96 IE 18.
11782	DRFaa20925	6.0.T16C	N/A	Vanguard 340 node crashed "FER FAULT: Program Exception Encountered."
11783	DRFaa20958	6.1.R000	N/A	Vanguard 6400 BRI Dial on demand does not work in an French network.
11811	DRFaa21028	N/A	N/A	Vanguard Terminal does not capture data correctly.