

Vanguard Applications Ware Release 6.4 Service Pak 1 (6.4.S100) Advisory Notice

Introduction

This notice contains information on software improvements and changes made by the Vanguard Applications Ware Release 6.4.R00A Service Pak 6.4.S100.

This notice supplements the *Vanguard Applications Ware Release 6.4.R00A Software Release Notice* (Part Number T0001-45).

Install Service Pak Executable File

Follow these steps to install the Release 6.4.R00A Service Pak 6.4.S100 patch executable file:

Step	Action
1	If you have not already done so, install Vanguard Software Builder from any Vanguide Release 6.4.R00A CD-ROM (Part Number 72608-34 A).
2	Download the V64S100.ZIP file from Vanguard Managed Solutions, please save the file to a local drive on your computer.
3	Use WinZip® to extract the ZIP file. The V64S100.ZIP file contains the V64S100.EXE file and a copy of this advisory notice in PDF format.
4	Run or open the V64S100.EXE executable file from your local drive.
5	The patch executable file prompts you with installation instructions. Insert the Vanguide 6.4.R00A 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).



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Build an Image

After you install the Service Pak 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 6.4.R00A Service Pak image by selecting the appropriate Service Pak (6.4.S100 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), or visit the Alarms Search database on: www.vanguardms.com/support/

6.4.S100 New Enhancements

All Vanguards - SNMP Enhancements for IPSec and Tunneling

SNMP Enhancements required for IPSec and Tunneling have been added to support VPN reporting for Careguard. (CR 14803)

All Vanguards - IPCP cRTP Negotiation Requests

IPHC over PPP with cRTP sub-option support was added to allow duplex cRTP over PPP to a Cisco node. (CR 14001)

Vanguard 34x and 64xx Software IPSec Support

Software IPSec support has been added for the Vanguard 34x and 64xx. (CR 14889).

All Vanguards - Frame Relay Service Level Agreement Monitoring (FR SLAM, FR SLA)

A Frame Relay Service Level Agreement has been added. This is the agreement between the customer and service provider. (CR 14820)

■Note

It is advised not to use this feature at this time due to the following limitations: After booting a station the Availability Measurement for that station stops working (CR 15213). If a data packet size is bigger than the data segment size the node could crash (CR 15228). Please contact customer service for a patch if this feature is desired.

All Vanguards - Auto Renewal of Digital Certificates

When a digital certificate expires, the unit automatically requests a new certificate from the CA. The auto renewal is only for expired certificate not for revoked certificate. This feature is configurable. If it was not configured for a certificate the system upon expiry would not request renewal. For a revoked certificate the user has to contact the CA and get the new certificate manually. (CR 14830)

All Vanguards - Support for Certificate Revocation List (CRL)

Support for Certificate Revocation List (CRL) has been added. The SCEP client obtains the CRL from a distribution point (DP) via HTTP. The distribution point should be configured by the user under the CA configuration menu and the user should get the CRL manually the first time. After that the system updates the CRL automatically. (CR 15179)

Vanguard 73XX TPDU and IDSD Support

Release 6.4.S100 and greater supports TPA-X25, TPA-TCP and IDSD Features for the Vanguard 73xx Series Routers that use the IBM750FX CPU card. IBM750FX supports a total of 1000 DSDs and 2000 TPDU slots. (CR 14616)

Software Improvements

Introduction

This section describes specific improvements to the Applications Ware software. It includes:

- Corrected Limitations fixed in 6.4.S100
- Customer-initiated Change Requests

Corrected Limitations

Vanguard 6455 Clearing “All Statistics” Creates a Node Crash

If you try and clear all statistics from the CTP Main Menu the node will crash and generate an error “FAULT: Data TLB Miss Exception Encountered”. This will fail with 6.1, 6.2, 6.2.S100, 6.3, 6.3.S100 software. The problem is related to having more BSC3270 devices configured than you have Quantity of DSP Devices set for in the node record. (CR 13842)

This is fixed.

Vanguard 34x GRE_IPSEC Configuration

The node may crash if you configure GRE_IPSEC before IPSEC and boot the node. (CR 14546)

This is fixed.

All Vanguards- Display of Status and Alarms

PKI status and alarms may not display correctly (CR 14555)

This is fixed.

Vanguard 7300 PBX Services and H.323 Voice

Vanguard 7300’s increased memory consumption of PBX Services and H.323 Voice requires users not to use more than 216 voice ports. (CR 14577)

This is fixed.

All Vanguards - BGP Route Table Update

BGP route tables may not update correctly. (CR 14617)

This is fixed.

All Vanguards - Deleting a Configured CA

When deleting a configured CA, the CA configuration record is removed from non-volatile memory (CMEM), but not removed from the system database. CA configuration information in CMEM may not the same as the systems memory. The information appears in the “Get CA and ID” enrollment menu. (CR 14687)

This is fixed.

Service Pak 6.4.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 6.4.R00A Service Pak 1 (6.4.S100), and, where applicable, interim patch releases have been replaced by the Release 6.4.R00A Service Pak 6.4.S100:

■ 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 6.4 Service Pak 6.4.S100	Problem or Enhancement Description
11620	DRFaa20365	N/A	6.0.T1KA	All Vanguards - TCP acknowledgments are delaying the delivery of packets.
12431 13760	N/A N/A	6.1.T1CA 6.3.S100	6.2.T13C N/A	Vanguard 64xx node crashed with an error: "FAULT: Data TLB Miss Exception Encountered."
13319	N/A	6.3.R00A	N/A	Vanguard 7300 Series node crash with an error: "ISI 750 Exception Encountered".
13393	N/A	N/A	N/A	Vanguard 320, 34x and 64xx - CLI GET DES always shows ISDN BRI and COP-DUMMY. Images based on GET DES are being incorrectly built.
13438	N/A	6.0T19F	N/A	Vanguard 64xx - When using SNMP, BGP statistics are incorrect.
13475	N/A	6.1.R000	6.2.T1HA	FXS ports on the Vanguard 320 and 34x indicate "Dead Air" and "Fast Busy". A port boot clears this.
13518	N/A	6.3.R00A	N/A	Vanguard 64xx CLI context help facility does not work properly.
13527	N/A	6.1.T02E	N/A	Vanguard 73xx - A Fatal Error Report (FER) on Frame Relay router occurs when all Ethernet ports are down.
13550	N/A	6.3.R00A	6.3.T19A	Vanguard 34x - BRI Data ISDN call setup is not processing correctly.

Software Improvements

Change Request Number	Limitation Number	Release Where Problem Was Reported	Interim Patch Release Replaced by Release 6.4 Service Pak 6.4.S100	Problem or Enhancement Description (continued)
13609	N/A	6.3.R00A	N/A	Vanguard 34x - The orientation of daughtercards is causing a reboot.
13622	N/A	6.3.R00A	N/A	Vanguard 320 - When SoTCP service is disabled a TCP reset packet is issued.
13623	N/A	6.3.R00A	6.3.T19A	Vanguard 6435 - ISDN data calls cannot be established while an interface is inactive.
13667	N/A	6.3.R00A	N/A	Vanguard 6455 When SoTCP is running over MLPPP the application times out.
13738	N/A	6.3.R00A	N/A	Vanguard 73xx - Voice calls reduce traffic from 2500fps to 11fps.
13827	N/A	6.2.R000	6.3.P02E	Vanguard 6455 - While disconnecting a call QSIG, Ports and Voice SVC hang until the port is booted.
13842	N/A	6.1.R000	N/A	Vanguard 64xx node crashed with an error: "FAULT: Data TLB Miss Exception Encountered" when you clear all statistics.
13860	N/A	6.1.S100	6.2.T1HA	Vanguard 6455 - Quad FXS locks in the answering state. A port boot is required to recover.
14108	N/A	5.5.S200	6.3.T1GA	Vanguard 6455 - BSC3270 HPAD port "Error Threshold Count" does not work properly.
14218	N/A	6.3.S100	N/A	Vanguard 6455 - When NAT is enabled with IPX the node resets.
14309	N/A	6.3.R00A	6.3.T1GA	Vanguard 6455 - BSC3780 port does not send a NAK to a TTD when it should.
14319	N/A	6.3.R00A	N/A	Vanguard 6455 - BSC3780 SNA does not handle SOH frames.
14359	N/A	6.3.T04A	6.3.T04B	Vanguard 6455 - NAT stops translating after a ping command. A NAT boot is required to recover.
14392	N/A	6.0.T1SA	N/A	Vanguard 6435 - When BSC2780 ports are set to SNAINT, changes to Data Link Role or Port Options parameters effect each other.

Software Improvements

Change Request Number	Limitation Number	Release Where Problem Was Reported	Interim Patch Release Replaced by Release 6.4 Service Pak 6.4.S100	Problem or Enhancement Description (continued)
14450	N/A	6.3.R00A	6.3.T1KA	Vanguard 342 - A bridge link is inactive after a node boot or a power cycle.
14591	N/A	6.0.R000	6.0.T24A	Vanguard 64xx - Failed Key Exchange after a link up.
14650	N/A	6.3.T1FB	6.3.T1FC	Vanguard 73xx - PRI-ISDN MLPPP fails to connect. Only the first MLPPP dial connection is accepted. The second connection to a new profile fails MLPPP authentication.
14652	N/A	6.3.T1FB	6.3.T1FC	Vanguard 73xx - OSPF 100M Ethernet does not "auto learn" the OSPF metric. The metric remains at zero.
14675	N/A	6.3.S100	6.3.T1CB	Vanguard 34x - T1 indicates a red alarm when the unit has no problems.
14690	N/A	6.3.R00A	N/A	Vanguard 73xx - MIBs not providing ISDN B-Channel statistics.
14694	N/A	6.4.R00A	N/A	Vanguard 73xx - PIM restoral problem.
14698	N/A	6.3.T1FB	6.3.T1FC	Vanguard 73xx - MLPPP with unnumbered IP has RIP routing conflicts when more than one profile is active.
14725	N/A	6.4.R00A	N/A	Vanguard 73xx - Conditional Default Gateway Advertisement does not work. The Default Gateway cannot be seen at the remote.
14737	N/A	6.3.T1GA	N/A	Vanguard 6455's node continually rebooted when two T1 option cards were installed.
14755	N/A	6.3.T1CA	6.3.T1CB	Vanguard 342 continually reboots when a Quad FXS card is installed.
14756	N/A	6.3.R00A	6.3.T1FC	Vanguard 73xx - During ISDN backup the unit learned RIPv2 routes from the unnumbered link (SL/57), but advertised SINK/102 as the next hop.
14773	N/A	6.4.R00A	N/A	Vanguard 342 - When configuring a VPN tunnel (IPSec) the tunnel statistics do not appear. User cannot troubleshoot tunnels within the router.

Software Improvements

Change Request Number	Limitation Number	Release Where Problem Was Reported	Interim Patch Release Replaced by Release 6.4 Service Pak 6.4.S100	Problem or Enhancement Description (continued)
14785	N/A	6.3.S100	N/A	Vanguard 340 - When a BRI-SO card is in slot 1, the node boots in cycle after a software upgrade.
14787	N/A	6.3.T1FA	6.3.T1FC	Vanguard 73xx - An OSPF error occurs "bad OSPF Checksum".
14788	N/A	6.3.T1FA	6.3.T1FC	Vanguard 73xx - When OSPF has an external summarization for a network, the same network cannot be aggregated on a backup by RIP.
14792	N/A	6.4.R00A	N/A	Vanguard 342 - After creating a base key to access the CTP remotely, the node crashes. After rebooting VPN will not connect.
14818	N/A	6.3.T1FC	N/A	Vanguard 73xx - OSPF backup routes stay active after a node boot.
14825	N/A	6.4.R00A	N/A	Vanguard 340 - Local loopbacks were not functioning properly. CTP sessions were locking up.
14948	N/A	6.4.R00A	N/A	Vanguard 73xx - Duplicate Multicast packets are consistently generated on Multi-Access LAN segments.
14981	N/A	6.4.1S	N/A	Vanguard 73xx - Node crash, router stopped responding.
15095	N/A	6.4.s1	N/A	Vanguard 73xx - After receiving a default route, the periodic RIP timer that updates the nexthop of different subnet routes does not inform MBR of route changes (PIM never updates the iif information).
15143	N/A	6.4.R000	N/A	Vanguard 73xx - Default Route 0.0.0.0 is being sent when all of the Ethernet cables are removed.
15183 15187	N/A N/A	6.4.R000 6.4.R000	N/A N/A	Vanguard 73xx - When PIM is implemented a steady loss of Dynamic Pool memory occurs that results in the node running out of Dynamic Pool Memory. IP functions may not work properly. Node boot required.

Known Software Limitations

Introduction

This section lists limitations known to exist in Release 6.4.S100 Applications Ware software.

Vanguard 340 Enhanced - Invalid Statistics

Vanguard 340 Enhanced does not display accurate Central Processing Unit (CPU) Statistics. (CR 14623)

Workaround: At present, there is no workaround.

Vanguard 73xx IBM750FX Central Processing Unit (CPU)

Booting the CTP port may cause an ATM port to go down. (CR 14685)

Workaround: At present, there is no workaround.

Vanguard 6455 Call Waiting Ring Back

When the originating end of an H.323 voice call is from a Cisco H.323 voice port to our H.323 interface, and its destination is a port which has call waiting in use, there is no audible ring back tone generated. (CR 14962)

Workaround: Do not enable call waiting on the destination voice ports.

Vanguard 73xx PKI ID Certificate

PKI ID certificate format not compatible between 6.4R00A and 6.4iS10F. (CR 14971)

Workaround: At present, there is no workaround.

Vanguard 73xx OSPF 100BT Metric

An OSPF 100BT interface does not calculate the correct metric if the port is configured for AUTO detect. (CR 14977)

Workaround: In order for OSPF to calculate the correct metric for a 100BT port, the port must be configured for 100BT (do not use AUTO detect).
