

Vanguard 242D Software Release Notice

Vanguard Applications Ware Release 6.5.P02A

Overview

Introduction

This notice contains information on the Vanguard[®] 242D product and the Vanguard Applications Ware Release 6.5.P02A.

Release 6.5.P02A only supports the Vanguard[®] 242D.

Vanguide 6.5.P02A CD-ROM

The Vanguide 6.5.P02A CD-ROM provides a Vanguide Application Set that can be used to build Applications Ware images for the Vanguard[®] 242D platform. The Vanguide 6.5.P02A CD-ROM also contains updated user documentation. For more information on using the CD-ROM, refer to the Readme.txt available on the Vanguide 6.5.P02A CD-ROM.

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Vanguard Applications Ware

Introduction

This section explains how the Applications Ware are organized, implemented, and modified.

Applications Ware Licenses and Upgrades

The Applications Ware for Release 6.5.P02A is divided into three base licenses and one license upgrade for Vanguard products. Customers are required to purchase only one base license and can purchase optional upgrade licenses to the base license:

Standard Applications Ware Packages

- IP+ Applications Ware
- SNA+ Applications Ware
- Multi-Service Applications Ware

License Upgrades

- Security Applications Ware License Upgrade

■ Note

A license refers to both a legal document that allows a customer to use features and to the software that contains the features.

■ Note

One base license must be purchased for each hardware platform.

Default Software Images and Functionality

Each license contains a large number of software features and functions. In addition, the Vanguard 242D platform has default factory images that contains subsets of the full licenses.

In some cases, the default images might not completely meet your needs. You can either create a new Vanguard customer image using the Software Builder application on the Vanguide CD-ROM.

For details about all features in a particular Applications Ware License, refer to the “Applications Ware for the Vanguard 242D” section on page 8.

License Upgrades

Introduction

The License Upgrades differ from standard Applications Ware packages in that they do not operate in a “stand-alone” capacity. For example, if you want the functions available in the SNA+ Applications Ware, you purchase that license and load it into your unit. However, a License Upgrade cannot be loaded into a unit by itself. You must:

- Purchase one of the standard Applications Ware packages
 - Purchase the License Upgrade
 - Use Software Builder to add the License Upgrade to the standard Applications Ware package
-

Security Applications Ware License Upgrade

The Security Applications Ware License Upgrade adds support for encryption and VPN (Virtual Private Network). The Security Applications Ware License Upgrade must be used with one of the standard Applications Ware packages and is needed for Data Encryption (Software Based or Hardware Based Encryption using the Data Encryption SIMM). VPN provides Triple DES, IPSec (IP Security) and GRE Tunneling (General Router Encryption) for the Vanguard 242D platform.

New Features in Release 6.5.P02A

Introduction

This section briefly describes the new features available with Release 6.5.P02A. It also lists where to find user documentation that contain detailed explanations of these features. For information on how to obtain user documentation, refer to “How to Obtain User Documentation” section on page 14.

Release 6.5.P02A Features

Vanguard 242D

Release 6.5.P02A introduces the Vanguard 242D product. The Vanguard 242D is a flexible, high performance RISC based multiservice router designed for small branch, and home offices. Figure 1 and Figure 2 illustrate the Vanguard 242D front and rear panels respectively.

The Vanguard 242D offers cost-effective integrated solutions that simultaneously support:

- Data
- Virtual Private Network (VPN)
- Broadband access
- 10/100BT LAN

The Vanguard 242D is SNMP-manageable and comes with a variety of LAN, SNA, and IP networking features.

The standard Vanguard 242D provides these features:

- Low Profile enclosure with rear accessible motherboard
- Motorola 50 Mhz MPC860P PowerPC processor
- 8 Megabytes of Non-Volatile FLASH on board
- 32 Megabytes of SDRAM SIMM
- Standard rear panel ports include:
 - One serial interface DB25 port supporting V.24, V.35, V.36, V.11/X.21 interfaces
 - One Async (RJ-45 connector) Control Terminal Port (CTP) for local and remote configuration, and management
 - Two 10/100BaseT Ethernet ports with auto-sensing
- Data Encryption SIMM slot (optional)
- External power supply

For more information about the Vanguard 242D, refer to *Vanguard 242D Installation Manual* (Part Number T0301-01).



Figure 1. Vanguard 242D Front Panel

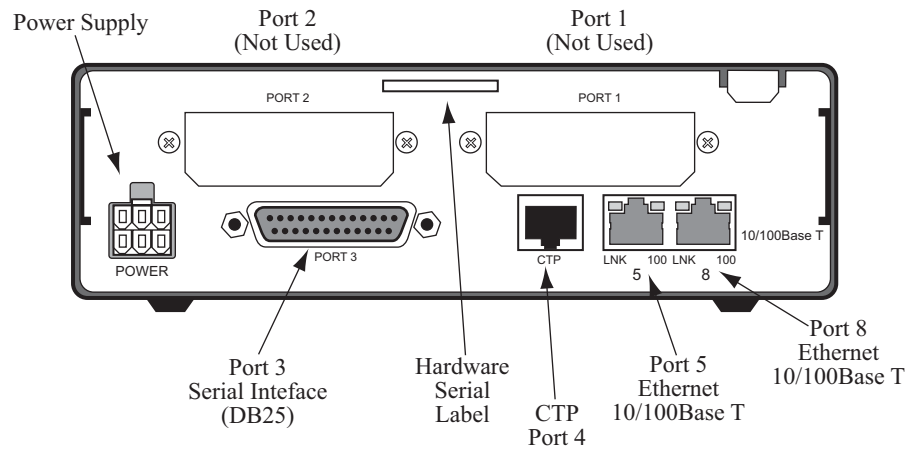


Figure 2. Vanguard 242D Rear Panel

Known Software Limitations

Introduction

This section lists limitations known to exist in Release 6.5.P02A.

Software Limitations from Release 6.5.R000

Release 6.5.P02A is an extension of Release 6.5.R000. Refer to the 6.5.R000 Software Release Notice (Part Number T0001-47) for known software limitations in Release 6.5.R000.

Software Limitations Unique to Release 6.5.P02A

CLI (Command Line Interface):

CLI commands such as getall and getnondefaultall may show non-existing physical port configurations after restoring a Vanguard v342 Configuration Memory File (CMEM).

(CR16135)

Workaround: This is a display issue only, there is no workaround

Documentation Supplements for the Vanguard 242D Platform

Documentation Supplements for the Vanguard 242D Platform

Introduction

This section lists new documentation that has been created as a part of Release 6.5.P02A.

Documentation

The Vanguard 242D Installation Manual T0301-01 Rev A, has been created for Release 6.5.P02A

Applications Ware for the Vanguard 242D

Introduction

Vanguard 242D supports Vanguard's broad library of protocols, thereby providing a diverse set of solutions via a single hardware platform. Vanguard 242D offers multiprotocol access, depending on the Applications Ware Package you purchase. Vanguard 242D must be ordered with one of the Applications Ware listed in the tables in this section.

Vanguard 242D Applications Ware

Release 6.5.P02A makes available these Applications Ware for the Vanguard 242D. Each Package supports a suite of default features. Other features, however, can be added by using Vanguard Software Builder. For more information, refer to the "MIB Downloading Instructions for Non-Vanguard Managed Solutions SNMP Managers" section on page 16.

■ Note

When using Vanguard Software Builder, be sure to make note of the warnings regarding memory limitations.

Information about the Applications Wares is divided into two tables.

- The first table lists each Applications Ware and its file number.
- The second table lists each Applications Ware and its features (default features as well as non-default features).

<i>Applications Ware Name</i>	<i>Source Filename</i>	<i>Version String</i>	<i>Description Filename</i>
IP+ Applications Ware	6.5.P02Az11.xrc	6.5.P02A_@IP+_V242D	6.5.P02Az11.des
SNA+ Applications Ware	6.5.P02Az12.xrc	6.5.P02A_@SNA+_V242D	6.5.P02Az12.des
Multiservice Applications Ware	6.5.P02Az15.xrc	6.5.P02A_@MS_V242D	6.5.P02Az15.des

Applications Ware for the Vanguard 242D

Vanguard 242D Features	IP+	SNA+	Multi-Service	Security
Network Management				
SNMP	D	D	D	
TELNET	D	D	D	
TFTP	D	D	D	
CLI	D	D	D	
Embedded Web HTTPD	L	L	L	
Async				
ATPAD	D	D	D	
APAD	L	L	L	
ISDN				
SoftSCC				
ISDN-NOAM				
ISDN-EURO				
ISDN-ASIA				
ISDN (T1/E1/PRI) Data (NA Default)				
ISDN (T1/E1/PRI) Data (European)				
ISDN (T1/E1/PRI) Data (Asia)				
ISDN (T1/E1/PRI) Voice (incl sign. NA)				
ISDN (T1/E1/PRI) Voice (incl sign. Euro)				
Vanguard Voice Relay				
G.723&G.711				
G.729&G.711				
CVSELP&G.711				
H.323				
Quad FXS				
Quad FXO				
T.38 for Quad FXS				
T.38 for Quad FXO				
Legend: D: Default License Feature. L: In License; add with Software Builder. A: Add-on Upgrade License Feature				

Applications Ware for the Vanguard 242D

Vanguard 242D Features (continued)	IP+	SNA+	Multi-Service	Security
Digital Voice - 6450/6455				
Vanguard T1/E1 Digital Voice Server				
Voice Options (All Products)				
Centralized Voice Switch				
Voice IP-Encapsulation				
LAN				
Router IP	D	D	D	
Router IPX	L	L	L	
LAN Option Protocols				
LLC-Eth		D	D	
LLC-TR				
IPXWAN	L	L	L	
Appletalk	L	L	L	
Bandwidth on Demand (Ld-Bal)	L	L	L	
Router Proxy	D	D	D	
Router Discovery	L	L	L	
Network Address Transl	L	L	L	
Policy Based Routing	L	L	L	
RTP Header Compression	L	L	L	
Token Ring (6400)				
Token Ring (7300)				
TR-Bridge				
ETH-Bridge	D	D	D	
XLB Bridge				
Tunnel	L	L	L	
IPSEC				A
DHCP Client	L	L	L	
Radius	L	L	L	
Dynamic IP Address (VPN)	L	L	L	
Legend: D: Default License Feature. L: In License; add with Software Builder. A: Add-on Upgrade License Feature				

Applications Ware for the Vanguard 242D

Vanguard 242D Features (continued)	IP+	SNA+	Multi-Service	Security
Firewall Lite (Stateful)	L	L	L	
SSH	L	L	L	
Network Protocols				
OSPF	D	L	L	
BGP4	L	L	L	
BGP Multipath	L	L	L	
BGP Communities	L	L	L	
DVMPR Multicast	D	D	D	
PIM Sparse Multicast	L	L	L	
FRF12	L	L	L	
FRA (only for backward compatibility)		L	L	
FRI (Includes FRA)	D	D	D	
FR SVC				
X.25	D	D	D	
SMDS			L	
MX25			L	
PPP	D	D	D	
PPPoE	L	L	L	
SoTCP (=Voice Relay Enc. In IP)	L	L	L	
Fractional T1/E1	L	L	L	
T1/E1 Interface				
ATM Protocols				
ATM				
ATM Congestion Control				
Serial Asynchronous Protocols				
ASYNC-BYPASS	D	D	D	
IBM2260				
SLIP	D	D	D	
TNPP				
Legend: D: Default License Feature. L: In License; add with Software Builder. A: Add-on Upgrade License Feature				

Applications Ware for the Vanguard 242D

Vanguard 242D Features (continued)	IP+	SNA+	Multi-Service	Security
TNPP-ROUT			L	
X.42 (GSC)				
T3POS		L	L	
T3POS over TCP		L	L	
DATAPAC	L	L	L	
SPP-PAD				
AC100				
Serial Synchronous Protocols				
SDLC		D	L	
XDLC		L	L	
TBOP		D	D	
LLC-FR		D	D	
SHDLC		L	L	
TBOP-BYPASS		D	D	
X32	L	L	L	
Serial Character-Oriented Protocols				
BSC3270		L	L	
BSC2780		L	L	
BSTD				
TCOP		D	D	
TCOP-BYPASS		D	D	
NCRBSC				
RS366		L	L	
TPDU Adaptors				
TPA-TPDU		L	L	
TPA-SDLC				
TPA-3270		L	L	
TPA-2780		L	L	
TPA-TCP		L	L	
Legend: D: Default License Feature. L: In License; add with Software Builder. A: Add-on Upgrade License Feature				

Applications Ware for the Vanguard 242D

Vanguard 242D Features (continued)	IP+	SNA+	Multi-Service	Security
TPA-UDP		L	L	
Node Features				
ATCIF (AT Dial/Telnet)	L	L	L	
LBU	D	D	D	
DCP		D	L	
DSCOPE		L	L	
DSD			L	
NCCP		L	L	
BCST				
NUI	L	L	L	
QOS Features				
TOW	D	D	D	
QoS - Protocol Priority (5.3M)	L	L	L	
QoS - Diff Serv (5.4)	D	D	D	
Ethernet DiffServ QoS (WAN)	D	D	D	
MLPPP LFI			L	
FRAME Data Comp	L	L	D	
BSC3270 to SNA Conversion				
BSC2780/3780 to SNA Conversion				
AS/400 5494 Comm. Server				
QOS Monitoring				
Application Performance Management & Bandwidth Prioritization				
Frame Relay FRF.13/FRF.19				
Security and VPN				
Security: Encryption & VPN-DES & 3DES				A
Security: Encryption & VPN-3DES & AES				
PKI & X.509 Digital Certificates				A
Legend: D: Default License Feature. L: In License; add with Software Builder. A: Add-on Upgrade License Feature				

How to Obtain User Documentation

Introduction

There are two ways to obtain software documentation:

- Download the most current, up-to-date document files from the On-line Library on our World Wide Web page.
 - Use the electronic navigation and search capability provided on the Vanguard 6.5.P02A CD-ROM.
-

World Wide Web

On the Web

The latest Vanguard user documentation, including detailed descriptions of new features and enhancements, is available on the World Wide Web.

Finding New Feature Documentation

Find your information faster and easier when you use the Product Documentation website. Eliminate the need to flip through several documentation updates. For example, suppose feature enhancements are made to ISDN over the course of several software releases. Each release provided a separate document describing the details of those ISDN features. The details of the features are described in the *ISDN Manual* in context with the rest of the feature information.

Getting New Documentation From the Web

The full set of Vanguard Documentation is available for download from the Vanguard Managed Solutions Product Documentation website:

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

To read the files, you need a copy of Adobe Acrobat Reader with Search. This application is free from many locations on the World Wide Web. You can define how you use Acrobat with your Web browser.

How to Obtain User Documentation

Keeping a Set of Manuals Current

Keep a current set of documentation for Release 6.5.P02A. To download a current printed set acquire a:

- Connection to the Vanguard Managed Solutions product documentation website:
<http://www.vanguardms.com/support/documentation>
- Printer
- Copy of Adobe Acrobat for your platform

Download manuals from the WWW for the desired features you need. Print the files, and replace the pages in your set of documentation with the new version.

Using the Vanguide 6.5.P02A CD-ROM

The Vanguide 6.5.P02A CD-ROM contains:

- All Vanguard Product documentation up to the current shipping release.
- Default Vanguard Applications Ware software images

. The CD-ROM supports Windows and UNIX platforms and includes a free copy of Adobe Acrobat Reader with Search functionality. Acrobat Reader provides a powerful search functionality across the entire volume of titles.

■ Note

When installing Acrobat (4.0 or greater) Reader, you may be required to accept the Software Licence Agreement. Acrobat Reader is freeware.

Acrobat Reader

Vanguard Managed Solutions supports Acrobat 4.0 and greater. Acrobat Reader 6.0 functions the same way as Reader 4 and 5 but it displays differently because of new features such as a “How to Window” on the right side of the work area. An Acrobat Reader 6.0 users guide can be downloaded from the Adobe website:

<http://www.adobe.com>

MIB Downloading Instructions for Non-Vanguard Managed Solutions SNMP Managers

Introduction

This section lists Vanguard MIB files needed for SNMP management of Vanguard devices when using a non-Vanguard Managed Solutions SNMP Network Management System (NMS).

Obtaining MIB Files

Vanguard MIB files for your non-Vanguard Managed Solutions NMS are available from the Vanguard 6.5.P02A CD-ROM. Refer to your Vanguard 6.5.P02A CD-ROM user documentation for the directory location of the MIB files.

You can also download MIB files from the internet. The address for the server is:

http://www.vanguardms.com/support/software_and_tools/vanguard/mibs

On the internet, there is one ZIP file for the PC and one ZIP file for UNIX. You must unzip the ZIP file to get the MIB files. The contents of these two ZIP files are identical. However, the formats of the files in these two ZIP files are slightly different due to the way PCs and UNIX systems handle text files. Depending on the protocols and options provided by the Applications Ware image installed in your node, you might not need all the MIB files. See the Required Files and Loading section below for details on the files you should have to support SNMP management for Vanguard products.

Required Files and Loading

The following MIB files are required by your NMS to perform SNMP management of Vanguard products:

- rfc1213.mib
- cdx_6500.mib

These files must be loaded first and in the order shown.

After you load these required files onto your NMS, you can load the MIB files for the options and protocols installed on your Vanguard hardware. See the MIB Files for Options/Protocols section below.

MIB Files for Options/Protocols

This table lists the contents of options and protocol MIB files for Vanguard products. Use this table to determine which MIB files you need to download.

Download This MIB File	If you want this option, protocol, or base MIB software
alc.mib	ALC protocol
atm.mib	Asynchronous Transfer Mode
bcst.mib	Broadcast

Download This MIB File	If you want this option, protocol, or base MIB software (continued)
bgp4.mib	Border Gateway Protocol 4
bri.mib	ISDN BRI protocol
bridge.mib	Bridging option
bsc2780.mib	BSC2780 protocol
bsc3270.mib	BSC3270 protocol
bstd.mib	Burroughs Poll/Select protocol
cdx_6500.mib	Required base MIB for Vanguard Products MIBs
de.mib	Data Encryption option
dc.mib	Data Compression option
dcp.mib	Data Connection Protection option
dsd.mib	Digital Sharing Device Option
e1.mib	Physical E1 port
eia.mib	EIA protocol (required file for serial protocol support)
eth.mib	Ethernet option
frdce.mib	Frame Relay DCE option
frdte.mib	Frame Relay DTE option
fri.mib	Frame Relay option
ges.mib	GSC protocol
hub.mib	Ethernet Hub option
ibm2260.mib	IBM2260 protocol
ipsec.mib	IP Security
isdn.mib	ISDN protocol
iso3201.mib	3201 protocol
mx25.mib	MX.25 protocol
ncrbsc.mib	NCR Binary Synchronous protocol
ns.mib	Network Service (required file)
pad.mib	PAD protocol
ping_opt.mib	Remote Ping Option
pim.mib	Protocol Independent Multicast
ppp.mib	Point-to-Point protocol
pppoe.mib	Point-to-Point over Ethernet

Download This MIB File	If you want this option, protocol, or base MIB software (continued)
qos.mib	Quality of Service option - QoS-Kit- includes: QoS_CORE, QoS_CLSSIFIER and QoS_SCHEDULER
qos_pp.mib	Quality of Service option - QoS-PP (Protocol Priority) includes: QoS_CCM, PACKET_CLASSIFIER and PACKET_SCHEDULER
radius.mib	RADIUS
rfc.1155.smi	Structure and identification of management information
rfc1212.smi	Concise MIB definitions
rfc1213.mib	MIB-II for managing TCP/IP -based internets
rfc1231.mib	IEEE 802.5 Token Ring MIB
rfc1286.mib	Definitions of managed objects for bridges
rfc1315.mib	Management Information Base for Frame Relay DTEs
rfc1398.mib	Managed objects for Ethernet-type interfaces
rfc1657a.mib	BGP4 MIB (Converted to SNMP version 1 from the original rfc1657 mib).
rfc1850.mib	OSPF MIB (Requires rfc1903.mib and is converted from rfc1850.mi2 to version 1 of SNMP).
rfc1850a.mi2	OSPF Version 2 MIB
rfc1850b.mi2	OSPF Version 2 MIB (Trap definitions)
rfc1903.mib	Textual conventions for version 2 of SNMP (Converted from rfc1903.mi2 to version 1 of SNMP).
rfc1903.mi2	Textual conventions for version 2 of SNMP
rfc2496a.mib	DS3/E3 Interface Type MIB (Converted to SNMP version 1 from the original rfc2496 mib).
rfc2618a.mib	RADIUS Authentication Client MIB
rfc2620a.mib	RADIUS Accounting Client MIB
router.mib	Routing option (required file)
rs366.mib	EIA RS366 support
sdlc.mib	SDLC protocol
shdsl.mib	Symmetric High Speed DSL
slac.mib	LLC Ethernet/Frame Relay/Token Ring Conversion option
snabsc.mib	System Network Architecture binary synchronous
spp.mib	SPP protocol
ss.mib	Switched Services (required file)

Download This MIB File	If you want this option, protocol, or base MIB software (continued)
t1e1vg.mib	Fractional T1/E1 Interface option
t1.mib	Physical T1 port
t1e1.mib	Virtual T1/E1 port mapping table
t1e1tg.mib	T1/E1 for the 7300 Series
tbop.mib	TBOP protocol
tcop.mib	TCOP protocol
tdlc.mib	TDLC protocol
tftp.mib	TFTP option
tdmclk.mib	TDM Network Clock option
tdmtgclk.mib	TDM Network Clock option for the 7300
tn3270.mib	TN3270 Remote Server
tnpp.mib	Telocator Network Paging Protocol (TNPP)
tow.mib	TOW option
tr.mib	Token Ring option
traffic_monitor .mib	Traffic Monitor
v.mib	Voice Relay option
vpmt.mib	Virtual Port Mapping Table option
vrrp.mib	Virtual Router Redundancy Protocol
wan.mib	WAN support (required file)
x25.mib	X.25 option
xdlc.mib	XDLC protocol

Applications Ware RFC Compliance

Listing

This table identifies the RFCs (Request for Comments) with which Vanguard Applications Ware software is compliant.

RFC	Description
768	User Datagram Protocol. J. Postel. Aug-28-1980.
791	Internet Protocol. J. Postel. Sep-01-1981.
792	Internet Control Message Protocol. J. Postel. Sep-01-1981. Not all messages covered by RFC 792 are supported by Vanguard Applications Ware.
793	Transmission Control Protocol. J. Postel. Sep-01-1981.
826	An Ethernet Address Resolution Protocol-or-Converting network protocol addresses to 48.bit Ethernet Address for Transmission on Ethernet hardware. D.C. Plummer. Nov-01-1982.
854	Telnet Protocol Specification. J. Postel, J.k. Reynolds. May-01-1983.
858	Telnet Suppress Go Ahead Option. J. Postel, J.K. Reynolds. May-01-1983.
877	Standard For The Transmission Of IP Datagrams Over Public Data Networks. J.T. Korb. Sep-01-1983.
894	Standard for the Transmission of IP data grams over Ethernet networks. C. Hornig. Apr-01-1984.
919	Broadcasting Internet Datagrams. J.C. Mogul. Oct-01-1984.
922	Broadcasting Internet datagrams in the presence of subnets. J.C. Mogul. Oct-01-1984.
950	Internet Standard Subnetting Procedure. J.C. Mogul, J. Postel. Aug-01-1985.
951	Proposed Bootstrap protocol (BOOTP) for ARPA-Internet W. Croft, J. Gilmore. Sept-01-1985.

RFC	Description (continued)
1009	Requirements for Internet Gateways R.Braden, J. Postel. Jun-01-1987.
1042	Standard For The Transmission Of IP Datagrams Over IEEE 802 Networks. J. Postel, J.k. Reynolds. Feb-01-1988.
1055	Nonstandard For Transmission Of IP Datagrams Over Serial Lines: SLIP. J.I. Romkey. Jun-01-1988.
1058	RIP Version 2 Carrying Additional Information. G. Malkin. January 1993.
1060	Assigned values used in network protocol implementations. J. Reynolds, J. Postel. Mar-01-1990.
1075	Distance Vector Multicast Routing Protocol. D. Waitzman, C Partridge, S. Deering. Nov-010-1988.
1091	Telnet Terminal-type Option. J. Vanbokkelen. Feb-01-1989.
1112	Host Extensions for IP Multicasting S. Deering. Aug-01-1989.
1122	Requirements for Internet hosts - communication layers. R.T. Braden. Oct-01-1989.
1123	Requirements for Internet hosts - application and support. R.T. Braden. Oct-01-1989.
1144	Compressing TCP/IP headers for low-speed serial links. V.Jacobson. Feb-01-1990.
1155	Structure And Identification Of Management Information For TCP/IP-based Internets. M.t. Rose, K. Mccloghrie. May-01-1990.
1156	MIB for Network Management of TCP/IP based Internets.
1157	Simple Network Management Protocol (SNMP). J.D. Case, M. Fedor, M.L. Schoffstall, C. Davin. May-01-1990.
1209	Transmission Of IP Datagrams Over The SMDS Service. D.m. Piscitello, J. Lawrence. Mar-01-1991.
1212	Concise MIB Definitions. M.t. Rose, K. Mccloghrie. Mar-01-1991.

RFC	Description (continued)
1213	Management Information Base For Network Management Of TCP/IP-based Internets:MIB-II. K. Mccloghrie, M.t. Rose. Mar-01-1991.
1215	A Convention for Defining Traps for use with the SNMP. M. Rose, Editor, Performance Systems International. March 1991.
1231	IEEE 802.5 Token Ring MIB. K. Mccloghrie, R. Fox, E. Decker. May-01-1991.
1250	IAB Official Protocol Standards. J. Postel. Aug-01-1991.
1256	ICMP Router Discovery Messages. S. Deering. September 1991.
1286	Definitions Of Managed Objects For Bridges. E. Decker, P. Langille, A. Rijsinghani, K. Mccloghrie. December, 1991.
1293	Inverse Address Resolution Protocol. T. Bradley, C. Brown. Jan-01-1992.
1294	Multiprotocol Interconnect Over Frame Relay. T. Bradley, C. Brown, A. Malis. January 1992.
1315	Management Information Base for Frame Relay DTEs. C. Brown, F. Baker, C. Carvalho. April 9, 1992.
1332	PPP Internet Protocol Control Protocol (IPCP). G. McGregor. May 1992.
1334	PPPAuthentication Protocols B. Lloyd, W. Simpson. Oct-01-1992.
1340	Status of Assigned Numbers J. Reynolds, J. Postel. July-01-1992.
1349	Type of Service in the Internet Protocol Suite P. Almquist. Jul-01-1992.
1356	Multiprotocol Interconnect On X.25 And ISDN In The Packet Mode. A. Malis, D. Robinson, R. Ullmann. August 1992.
1362	Novell IPX over Various WAN Media (IPXWAN). M. Allen. Sept-01-1992.
1398	Definitions Of Managed Objects For The Ethernet-like Interface Types. F. Kastenholz. January 1993.
1483*	Multiprotocol Encapsulation over ATM Adaptation Layer 5 Juha Heinanen, July 1993. * See RFC 2684. RFC 2684 obsoletes RFC 1483

RFC	Description (continued)
1490	Multiprotocol Interconnect Over Frame Relay. T. Bradley, C. Brown, & A. Malis. July 1993.
1517	Applicability Statement For The Implementation Of Classless Inter-Domain Routing (CIDR). Internet Engineering Steering Group, R. Hinden. September 1993.
1518	An Architecture For IP Address Allocation With CIDR. Y. Rekhter & T. Li. September 1993.
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Product Declarations and Regulatory Information

The following sections provide information about standards compliance, safety statements, and Type Approvals.

Warnings And Cautions

The following special notices apply to all equipment handling procedures in this installation guide.



Warning

Ports capable of connecting to ports on other apparatus are defined as Safety Extra Low Voltage (SELV). To conform with EN60950, ensure that these ports are only connected to ports of the same type on other apparatus.

Les ports qui sont susceptibles d'être connectés à des équipements sont désignés comme TBTS. Pour garantir la conformité à la norme EN 60950, n'interconnecte ces ports qu'avec des ports du même type sur des autres matériels.

Anschlüsse, die mit anderen Geräten verbunden werden können, sind als SELV beschrieben. Um Konformität mit EN 60950 zu versichern, sichern Sie es, daß diese Anschlüsse nur mit den des selben Type auf anderen Geräten verbunden werden.

CE Marking

The mark in the following diagram appears on each Vanguard Series product, and the statement that follows explains its significance.



This product is CE marked to indicate compliance with the following European Directives:

- 1999/5/EC Radio & Telecom Terminal Equipment (R&TTE)
 - 73/23/EEC Low Voltage Directive (Safety)
 - 89/336/EEC EMC Directive
-

Product Declarations and Regulatory Information

**Declarations of
Conformity**

English

Declaration of Conformity:

Hereby, Vanguard Managed Solutions declares that this Vanguard Router is in compliance with the requirement and other relevant provisions of Directive 1999/5/EC.

Danish

Konformitetserklæring:

Hermed erklærer Vanguard Managed Solutions, at indestående Vanguard Router er i overensstemmelse med de grundlæggende krav og de relevante punkter i direktiv 1999/5/EF.

Dutch

Verklaring van overeenstemming:

Hierbij verklaart Vanguard Managed Solutions dat diens Vanguard Router voldoet aan de basisvereisten en andere relevante voorwaarden van EG-richtlijn 1999/5/EG.

Finnish

Vaativustenmukaisuusvakuutus:

Vanguard Managed Solutions vakuuttaa täten, että Vanguard Router on direktiivin 1999/5/EC keskeisten vaatimusten ja sen muiden tätä koskevien säännösten mukainen

French

Déclaration de conformité :

Par la présente, Vanguard Managed Solutions déclare que ce routeur Vanguard est conforme aux conditions essentielles et à toute autre modalité pertinente de la Directive 1999/5/CE.

German

Konformitätserklärung:

Hiermit erklärt Vanguard Managed Solutions dass der Vanguard Router die grundlegenden Anforderungen und sonstige maßgebliche Bestimmungen der Richtlinie 1999/5/EG erfüllt.

Greek

Δήλωση Συμμόρφωσης:

Δια του παρόντος, η εταιρεία Vanguard Managed Solutions δηλώνει ότι η παρούσα συσκευή (δρομολογητής) Vanguard Router πληροί τις βασικές απαιτήσεις και άλλες βασικές προϋποθέσεις της Οδηγίας 1999/5/ΕΚ.

Product Declarations and Regulatory Information

Italian

Dichiarazione di conformità:

Con la presente Vanguard Managed Solutions dichiara che il router Vanguard soddisfa i requisiti essenziali e le altre disposizioni pertinenti della direttiva 1999/5/CE.

Portugese

Declaração de Conformidade:

Através da presente, a Vanguard Managed Solutions declara que este encaminhador Vanguard se encontra em conformidade com os requisitos essenciais e outras disposições relevantes da Directiva 1999/5/CE.

Spanish

Declaración de conformidad:

Por la presente declaración, Vanguard Managed Solutions declara que este encaminador Vanguard cumple los requisitos esenciales y otras cláusulas importantes de la directiva 1999/5/CE.

Swedish

Överensstämmelseförklaring:

Vanguard Managed Solutions förklarar härmed att denna Vanguardrouter överensstämmer med de väsentliga kraven och övriga relevanta stadganden i direktiv 1999/5/EG.
