Cisco 7000 Hardware Installation and Maintenance

Corporate Headquarters 170 W. Tasman Drive San Jose, CA 95134-1706 USA 408 526-4000 800 553-NETS

Customer Order Number: DOC-7000IM3 Cisco Document Assembly Number: 83-0096-01 Text Part Number: 78-1037-05 The products and specifications, configurations, and other technical information regarding the products contained in this manual are subject to change without notice. All statements, technical information, and recommendations contained in this manual are believed to be accurate and reliable but are presented without warranty of any kind, express or implied, and users must take full responsibility for their application of any products specified in this manual.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual for this device, may cause interference to radio communications. This equipment has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case users at their own expense will be required to take whatever measures may be required to correct the interference.

The following third-party software may be included with your product and will be subject to the software license agreement:

CiscoWorks software and documentation are based in part on HP OpenView under license from the Hewlett-Packard Company. HP OpenView is a trademark of the Hewlett-Packard Company. Copyright 1992, 1993 Hewlett-Packard Company.

The Cisco implementation of TCP header compression is an adaptation of a program developed by the University of California, Berkeley (UCB) as part of UCB's public domain version of the UNIX operating system. All rights reserved. Copyright © 1981, Regents of the University of California.

Network Time Protocol (NTP). Copyright © 1992, David L. Mills. The University of Delaware makes no representations about the suitability of this software for any purpose.

Point-to-Point Protocol. Copyright © 1989, Carnegie-Mellon University. All rights reserved. The name of the University may not be used to endorse or promote products derived from this software without specific prior written permission.

The Cisco implementation of TN3270 is an adaptation of the tn3270, curses, and termcap programs developed by the University of California, Berkeley (UCB) as part of UCB's public domain version of the UNIX operating system. All rights reserved. Copyright © 1981-1988, Regents of the University of California

Cisco incorporates Fastmac software in some Token Ring products. Fastmac software is licensed to Cisco by Madge Networks Limited.

XRemote is a trademark of Network Computing Devices, Inc. Copyright © 1989, Network Computing Devices, Inc., Mountain View, California. NCD makes no representations about the suitability of this software for any purpose.

The X Window System is a trademark of the Massachusetts Institute of Technology. Copyright © 1987, Digital Equipment Corporation, Maynard, Massachusetts, and the Massachusetts Institute of Technology, Cambridge, Massachusetts. All rights reserved.

THIS MANUAL AND THE SOFTWARE OF THE ABOVE-LISTED SUPPLIERS ARE PROVIDED "AS IS" WITH ALL FAULTS. CISCO AND THE ABOVE-NAMED SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Notice of Restricted Rights:

Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph (c) of the Commercial Computer Software - Restricted Rights clause at FAR \$52.227-19 and subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS \$252.227-7013. The information in this manual is subject to change without notice.

AccessPath, AtmDirector, Browse with Me, CCIP, CCSI, CD-PAC, CiscoLink, the Cisco Powered Network logo, Cisco Systems Networking Academy, the Cisco Systems Networking Academy logo, Fast Step, Follow Me Browsing, FormShare, FrameShare, GigaStack, IGX, Internet Quotient, IP/VC, iQ Breakthrough, iQ Expertise, iQ FastTrack, the iQ Logo, iQ Net Readiness Scorecard, MGX, the Networkers logo, Packet, RateMUX, ScriptBuilder, ScriptShare, SlideCast, SMARTnet, TransPath, Unity, Voice LAN, Wavelength Router, and WebViewer are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, Discover All That's Possible, and Empowering the Internet Generation, are service marks of Cisco Systems, Inc.; and Aironet, ASIST, BPX, Catalyst, CCDA, CCDP, CCIE, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, the Cisco IOS logo, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Enterprise/Solver, EtherChannel, EtherSwitch, FastHub, FastSwitch, IOS, IP/TV, LightStream, MICA, Network Registrar, PIX, Post-Routing, Pre-Routing, Registrar, StrataView Plus, Stratm, SwitchProbe, TeleRouter, and VCO are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries.

All other trademarks mentioned in this document or Web site are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0108R)

Cisco 7000 Hardware Installation and Maintenance Copyright © 1993–1995, 2001 Cisco Systems, Inc. All rights reserved. Printed in USA.

SOFTWARE LICENSE

READ THIS SOFTWARE LICENSE AGREEMENT CAREFULLY BEFORE USING THE SOFTWARE.

PLEASE READ THESE TERMS AND CONDITIONS CAREFULLY BEFORE USING THE SOFTWARE. BY USING THE SOFTWARE OF CISCO SYSTEMS, INC. AND ITS SUPPLIERS FROM TIME TO TIME, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THIS LICENSE. IF YOU DO NOT AGREE WITH THE TERMS OF THIS LICENSE, PROMPTLY RETURN THE UNUSED SOFTWARE, MANUAL, AND RELATED EQUIPMENT (WITH PROOF OF PAYMENT) TO THE PLACE OF PURCHASE FOR A FULL REFUND.

Cisco Systems, Inc. ("Cisco") grants to Customer ("Customer") a nonexclusive and nontransferable license to use the Cisco software ("Software") in object code form solely on a single central processing unit owned or leased by Customer or otherwise embedded in equipment provided by Cisco. Customer may make one (1) archival copy of the software provided Customer affixes to such copy all copyright, confidentiality, and proprietary notices that appear on the original.

EXCEPT AS EXPRESSLY AUTHORIZED ABOVE, CUSTOMER SHALL NOT: COPY, IN WHOLE OR IN PART, SOFTWARE OR DOCUMENTATION; MODIFY THE SOFTWARE; REVERSE COMPILE OR REVERSE ASSEMBLE ALL OR ANY PORTION OF THE SOFTWARE; OR RENT, LEASE, DISTRIBUTE, SELL, OR CREATE DERIVATIVE WORKS OF THE SOFTWARE.

Customer agrees that aspects of the licensed materials, including the specific design and structure of individual programs, constitute trade secrets and/or copyrighted material of Cisco. Customer agrees not to disclose, provide, or otherwise make available such trade secrets or copyrighted material in any form to any third party without the prior consent of Cisco. Customer agrees to implement reasonable security measures to protect such trade secrets and copyrighted material. Title to Software and documentation shall remain solely with Cisco.

LIMITED WARRANTY. Cisco warrants that the Software will substantially conform to the published specifications for such Software, if used properly in accordance with the Documentation, for a period of ninety (90) days from the date of shipment. To be eligible for a remedy, Customer must report all warranted problems within the warranty period to the party that supplied the Product to Customer or to the Cisco Service Partner if the Software was exported under the multinational uplift program. Cisco's sole and exclusive obligation and Customer's exclusive remedy with respect to nonconforming Software upon contact will be, at Cisco's option and potentially through the Sales or Service Partner, either (i) to provide a correction or a workaround for any reproducible errors, or (ii) to refund to Customer the license fee for the Software in the event that a license fee was paid and the other remedy is not available, or, if the license fee was zero, refund the price of the hardware less depreciation calculated on a straight-line basis. Customer agrees to cooperate with Cisco or its Sales or Service Partner in creating the environment in which the error occurred. Further, Customer agrees to supply any necessary equipment for such tests.

This Limited Warranty does not apply to Software which (1) has been altered, except as authorized by Cisco, (2) has not been installed, operated, repaired, or maintained in accordance with any installation, handling, maintenance, or operating instructions supplied by Cisco, (3) has been subjected to unusual physical or electrical stress, misuse, negligence, or accident, (4) is used in ultrahazardous activities, (5) has been used in such a way that Cisco or its Sales Partner cannot reasonably reproduce the Software error, (6) has been exported from the original country of destination without payment of an uplift, or (7) has been misapplied. In no event does Cisco warrant that the Software is error free or that Customer will be able to operate its networks without problems or interruptions.

DISCLAIMER. THIS WARRANTY IS IN LIEU OF AND CISCO DISCLAIMS ALL OTHER WARRANTIES AND CONDITIONS, EXPRESSED OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY, NONINFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE.

CONSEQUENTIAL DAMAGES. IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS CISCO SOFTWARE, EVEN IF CISCO HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SOME STATES DO NOT ALLOW LIMITATION OR EXCLUSION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.

Customer will comply with all applicable export laws and regulations if it exports the products. This restriction shall survive termination of this Agreement.

This License is effective until terminated. Customer may terminate this License at any time by destroying the software together with all copies thereof. Cisco may immediately terminate this License if the Customer fails to comply with any term or condition hereof. Upon any termination of this License, Customer shall discontinue use of the Software and shall destroy all copies of the software.

This License shall be governed by and construed in accordance with the laws of the State of California. If any portion hereof is found to be void or unenforceable, the remaining provisions of this License shall remain in full force and effect. This License constitutes the entire License between the parties with respect to the use of the Software.

Restricted Rights - Cisco's software and supporting documentation are provided with RESTRICTED RIGHTS. Use, duplication, or disclosure by the Government is subject to the restrictions as set forth in subparagraph (c) of the Commercial Computer Software - Restricted Rights clause at FAR §52.227-19 and subparagraph (c)(1)(ii) of The Rights in Technical Data and Computer Software clause at DFARS §52.227-7013.

HARDWARE WARRANTY

Performance Warranty. Cisco warrants to Customer, for a period of ninety (90) days from the shipping date, that Hardware purchased under this Agreement will be free from hardware defects in material and workmanship. To be eligible for a remedy, Customer must report all warranted problems within the warranty period to the party that supplied the Product to Customer or to the Cisco Service Partner if the Hardware was exported under the multinational uplift program.

Hardware Remedies. In the event of a warranted problem with respect to the Hardware, Customer must contact the place it acquired the Hardware or the Cisco Service Partner if the Hardware was exported pursuant to the multinational uplift program as soon as possible after it becomes aware of the defect. Cisco or the Sales or Service Partner (as appropriate) will supply replacement parts for the products listed in Cisco's recommended spares list. Replacement parts will be shipped within five (5) working days after receipt of Customer's request. Cisco or its Sales or Service Partner will bear the cost for shipment of advance replacements to Customer. Customer must return all defective boards and assemblies to Cisco or the Sales or Service Partner in accordance with the then-current return material authorization (RMA) procedures. Cisco's sole and exclusive obligation with respect to defective Hardware will be, at Cisco's option and through a Sales or Service Partner if necessary, to either (i) provide advance replacement service as described above, (ii) replace the Product with a Product that does not contain the defect, or (iii) refund the price paid for the Hardware less depreciation calculated on a straight-line basis.

Exclusions. The above warranty does not apply to any Product which (1) has been altered, except as authorized by Cisco, (2) has not been installed, operated, repaired, or maintained in accordance with any installation, handling, maintenance, or operating instructions supplied by Cisco, (3) has been subjected to unusual physical or electrical stress, misuse, negligence, or accident, (4) is used in ultrahazardous activities, (5) has been used in such a way that Cisco cannot reasonably reproduce the Software error, or (6) has been exported from the original country of destination without payment of an uplift. In no event does Cisco warrant that Customer will be able to operate its networks without problems or interruptions.

DISCLAIMER. THIS WARRANTY IS IN LIEU OF AND CISCO DISCLAIMS ALL OTHER WARRANTIES AND CONDITIONS, EXPRESSED OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY, NONINFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE.

CONSEQUENTIAL DAMAGES. IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS CISCO SOFTWARE, EVEN IF CISCO HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SOME STATES DO NOT ALLOW LIMITATION OR EXCLUSION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.