

DICTIONARY OF NETWORKING

THIRD EDITION

PETER DYSON



CLEAR DEFINITIONS FOR THOUSANDS OF NETWORKING TERMS, ACRONYMS, AND ABBREVIATIONS

COVERS WINDOWS 2000, NETWARE 5, UNIX, LINUX, SOLARIS AND MORE

FOR NETWORK USERS, NETWORK ADMINISTRATORS, AND STUDENTS



CD CONTAINS A FULLY SEARCHABLE ELECTRONIC VERSION OF THE

INCLUDES COVERAGE OF

Dictionary of Networking

Third Edition

Peter Dyson

Associate Publisher: Guy Hart-Davis
Contracts and Licensing Manager: Kristine O'Callaghan
Acquisitions & Developmental Editor: Neil Edde
Editor: Pat Coleman
Project Editor: Jeremy Crawford
Technical Editor: Mark Kovach
Book Designer: Bill Gibson
Graphic Illustrators: Tony Jonick and Jerry Williams
Electronic Publishing Specialist: Bill Gibson
Project Team Leader: Lisa Reardon
Proofreaders: Susan Berge, Theresa Mori, and Catherine Morris
Companion CD: Ginger Warner
Cover Designer: Archer Design

SYBEX, Network Press, and the Network Press logo are registered trademarks of SYBEX Inc.

The CD Interface music is from GIRA Sound AURIA Music Library ©GIRA Sound 1996.

TRADEMARKS: SYBEX has attempted throughout this book to distinguish proprietary trademarks from descriptive terms by following the capitalization style used by the manufacturer.

The author and publisher have made their best efforts to prepare this book, and the content is based upon final release software whenever possible. Portions of the manuscript may be based upon pre-release versions supplied by software manufacturer(s). The author and the publisher make no representation or warranties of any kind with regard to the completeness or accuracy of the contents herein and accept no liability of any kind including but not limited to performance, merchantability, fitness for any particular purpose, or any losses or damages of any kind caused or alleged to be caused directly or indirectly from this book.

The first edition of this book was published under the title *Novell's Dictionary of Networking* copyright ©1994 SYBEX Inc.

Second edition copyright ©1995 SYBEX Inc.

Copyright ©1999 SYBEX Inc., 1151 Marina Village Parkway, Alameda, CA 94501. World rights reserved. No part of this publication may be stored in a retrieval system, transmitted, or reproduced in any way, including but not limited to photocopy, photograph, magnetic or other record, without the prior agreement and written permission of the publisher.

Library of Congress Card Number: 99-62864
ISBN: 0-7821-2461-5

Manufactured in the United States of America

synchronous transmission

synchronous transmission A transmission method that uses a clock signal to regulate data flow.

In synchronous transmissions, frames are separated by equal-sized time intervals. Timing must be controlled precisely on the sending and the receiving computers. Special characters are embedded in the data stream to begin synchronization and to maintain synchronization during the transmission, allowing both computers to check for and correct any variations in timing.

See also asynchronous transmission.

syntax The formal rules of grammar as they apply to a specific programming language or operating system command; in particular, the exact sequence and spelling of command elements required for the command to be interpreted correctly.

syntax error An error in the use of a programming language or operating system command syntax, such as misspelling a keyword or omitting a required space.

SyQuest Technology, Inc. A leading manufacturer of removable storage media, particularly the SCSI-based removable hard disk available for the PC and the Macintosh.

For more information on SyQuest Technology, Inc., see www.syquest.com.

System IV A version of Unix from AT&T that was never released outside the company, mostly to avoid confusion with the 4.xBSD series of products.

System V The last version of Unix from AT&T, pronounced "System Five." The latest release is known as System V Release 4.2, often abbreviated SVR4 or SVR4.2.

System V Interface Definition Abbreviated SVID. A set of documents released by AT&T that defined the Unix System V interfaces and operating system calls.

system administration The day-to-day administrative and management tasks performed by the system administrator, including:

- Starting up and shutting down the system
- Setting the system time and date
- Assigning and changing passwords
- Adding and removing users and groups
- Installing, upgrading, and removing application packages and installing operating system upgrades
- Backing up the system, storing archives off location, and restoring backups as needed
- Installing and configuring new hardware such as printers, storage devices, and communications systems