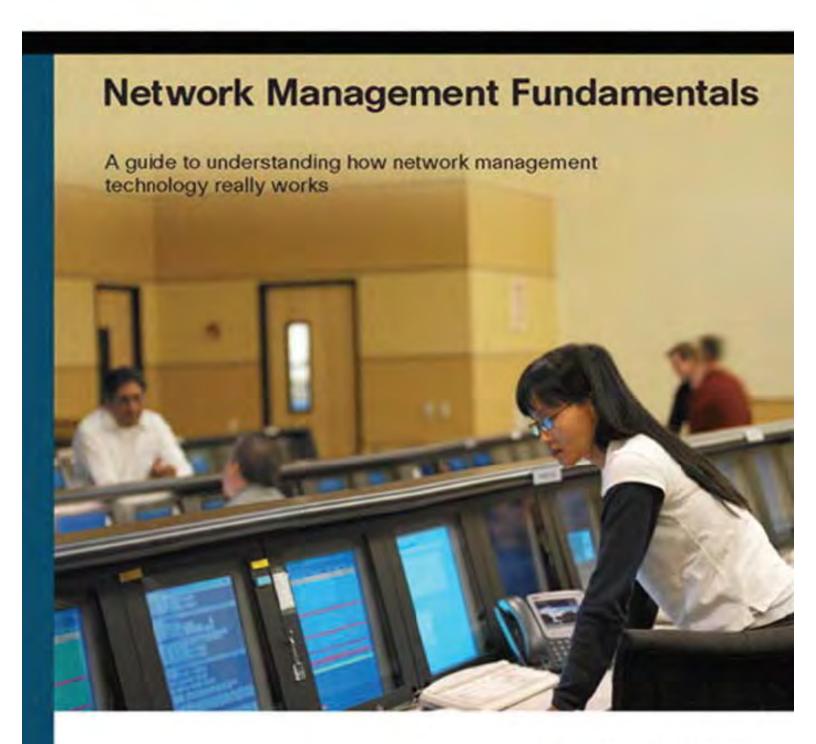
Exhibit 2





ciscopress.com

Alexander Clemm, Ph.D.



ii

Network Management Fundamentals

Alexander Clemm, Ph.D.

Copyright© 2007 Cisco Systems, Inc.

Published by: Cisco Press 800 East 96th Street Indianapolis, IN 46240 USA

All rights reserved. No part of this book may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without written permission from the publisher, except for the inclusion of brief quotations in a review.

Printed in the United States of America 1 2 3 4 5 6 7 8 9 0

First Printing November 2006

LIBRARY OF CONGRESS CATALOG CARD NUMBER: 2004110268

ISBN: 1-58720-137-2

Warning and Disclaimer

This book is designed to provide information about network management. Every effort has been made to make this book as complete and as accurate as possible, but no warranty or fitness is implied.

The information is provided on an "as is" basis. The authors, Cisco Press, and Cisco Systems, Inc., shall have neither liability nor responsibility to any person or entity with respect to any loss or damages arising from the information contained in this book or from the use of the discs or programs that may accompany it.

The opinions expressed in this book belong to the author and are not necessarily those of Cisco Systems, Inc.

Corporate and Government Sales

Cisco Press offers excellent discounts on this book when ordered in quantity for bulk purchases or special sales. For more information, please contact: U.S. Corporate and Government Sales 1-800-382-3419 corpsales@pearsontechgroup.com

For sales outside of the U.S. please contact: **International Sales** 1-317-581-3793 international@pearsontechgroup.com

Feedback Information

At Cisco Press, our goal is to create in-depth technical books of the highest quality and value. Each book is crafted with care and precision, undergoing rigorous development that involves the unique expertise of members from the professional technical community.

Readers' feedback is a natural continuation of this process. If you have any comments regarding how we could improve the quality of this book or otherwise alter it to better suit your needs, you can contact us through e-mail at feedback@ciscopress.com. Please make sure to include the book title and ISBN in your message.

We greatly appreciate your assistance.

Trademark Acknowledgments

All terms mentioned in this book that are known to be trademarks or service marks have been appropriately capitalized. Cisco Press or Cisco Systems, Inc., cannot attest to the accuracy of this information. Use of a term in this book should not be regarded as affecting the validity of any trademark or service mark.



iii

Publisher: Paul Boger

Executive Editor: Mary Beth Ray

Managing Editor: Patrick Kanouse

Development Editor: Betsey Henkels Project Editor: Tonya Simpson

Copy Editor: Krista Hansing Editorial Services, Inc.

Team Coordinator: Vanessa Evans Book and Cover Designer: Louisa Adair

Compositor: Mark Shirar Indexer: Larry Sweazy Cisco Representative: Anthony Wolfenden Cisco Press Program Manager: Jeff Brady

Technical Editors: Prakash Bettadapur, David M. Kurtiak, Lundy Lewis



Americos Headquarters Cisco Systems Inc. 170 West Tasman Drive San Jose, CA 95134-1708 USA www.cisco.com Tel. 408 528-4000 800 553-NETS (8387) Fax: 408 527-0883 Asia Pacific Headquartera Cisco Systems, Inc. 168 Robinson Road #28-01 Capital Tower Singapore 068912 www.cisco.com Tet +65 6317 7777 Fevr. als 7817 7790 Europe Headquarters Cisco Systems International BV Haarlerbergark Haarlerbergweg 1348 1101 CH Amsterdam The Netherlands www-europe.cisco.com Tet: +31 0.800 020 0791 Pax:+31 0.20 357 1100

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.

82006 Cisco Systems, Inc. All rights reserved, CCVP the Cisco logo, and the Cisco Square Bridge logo are hademarks of Cisco Systems, Inc. Changing the Way We Work, Live Play and Learn is a service mark of Cisco Systems, Inc. and Access Registrar Alignet, BPX. Catalyst. CCDA, CCDP CCIE. CCIP. CCNA, CCNP. CCSP Cisco, the Cisco Certified Internetwork Expert logo. Cisco IOS, Cisco IOS, Cisco Systems Capital.
The Cisco Systems logo, Cisco Unity, Emerginar Systems Ios, Cisco Systems Capital.
The Cisco Systems logo, Cisco Unity. Emerginar Systems IOS, IPTV. (I) Expertise the IO bigo.
The New Residenses Scorecard (Duick Study, LightStream, Linsays, Meeling/Flace MGX, Network Registrar Packet PX. ProConnect, Residentia, ScriptShare, StackWise, The Fasiest Way In Increase Your Internet Quotient, and TisnaPath are registered trademarks of Cisco Systems, Inc., and/or its affiliates in the United States and Certain other countries.

All other trademarks mentioned in this document or Website 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, (1809R)



iv

About the Author

Dr. Alexander Clemm, Ph.D. is a Senior Architect with Cisco Systems. He has been involved with integrated management of networked systems and services since 1990. Alex has provided technical leadership for many network management development and engineering efforts from original conception to delivery to the customer. They include management instrumentation of network devices, turnkey management solutions for packet telephony and managed services, and management systems for Voice over IP networks, broadband access networks, and provisioning of residential subscriber services. Alex has approximately 30 publications related to network management and 15 patents pending. He is on the Organizing Committee or Technical Program Committee of the major technical conferences in the field, including IM, NOMS, DSOM, IPOM, and MMNS, and he served as Technical Program Co-chair of the 2005 IFIP/IEEE International Symposium on Integrated Network Management. He holds a Ph.D. degree from the University of Munich and a Master's degree from Stanford University.



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

