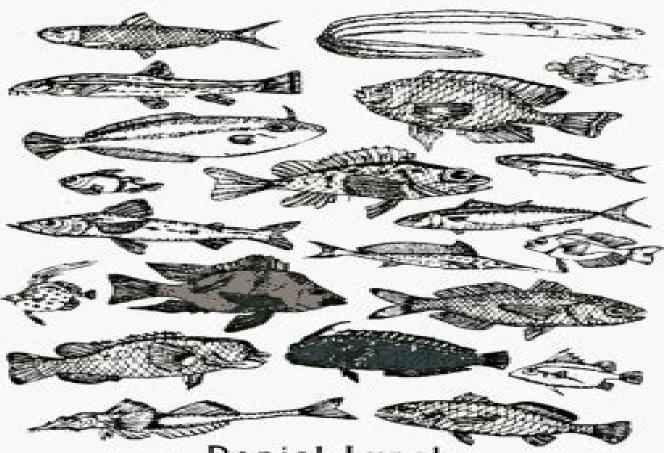
# SNA AND TOP/IP



Daniel Lynch

James P. Gray

Edward Rabinovitch



# **Sna And Tcp Ip Enterprise Networking**

**Priscilla Oppenheimer** 

# **Sna And Tcp Ip Enterprise Networking:**

**SNA & TCP/IP Enterprise Networking** Daniel C. Lynch,1998 Written by a team of developers industry experts consultants end users and visionaries this is the most complete guide to enterprise networking options Learn how SNA APPN and HPR can integrate and interoperate smoothly Discover emerging enterprise solutions for the Web Internet and Java This book presents a complete guide to SNA interoperability today Communications Systems Management Handbook, Sixth Edition Anura Guruge, Lisa Gaetta, 1999-10-25 Just a decade ago many industry luminaries predicted the collapse of the centralized data center and IT structure In its place would be a more decentralized client server model built upon the Open Systems Interconnect OSI networking architecture However client server never fully realized all of its promises and OSI floundered Now instead of client server and OSI we have the Web based model and TCP IP Together Web oriented technologies i e browsers web servers HTML Java and TCP IP are completely changing how the enterprise views its network Instead of serving as primarily an internal utility the enterprise network is now a vital means of delivering products and services and of tying an enterprise more closely to its customers partners and suppliers The impact to the very structure of the enterprise network could not be more profound Providing extensive coverage of planning networking LANs systems management communications issues and trends Communications Systems Management Handbook 6th Edition is your most reliable source for solid dependable solutions to real world data communications problems. The tips strategies and case studies provided do more than just save you time and money They also save your data communications network and with it your professional life This new edition of the Communications Systems Management Handbook provides you with detailed information on the different facets of change in the enterprise network Enterprise network architectures LAN and campus networking Remote access WAN Data centers Client and servers Security Network Management What's more the New Edition is dramatically restructured providing a more logical grouping of articles into discrete sections that bring focus to a particular enterprise networking topic In addition the content of this edition has been substantially updated Almost three quarters of the articles are new to this edition The common theme throughout the handbook is the change that the enterprise network is undergoing and how to manage it The handbook's generous use of illustrations simplifies the technical workings of networks and communications systems The comprehensive index makes it easy to find the topics you want and related topics And because each chapter is written by an expert with first hand experience in data communications no other book gives you such a full range of perspectives and explanations of the technical planning administrative personnel and budget challenges of the communication manager s job Covering everything from electronic commerce to multimedia from system design and cost allocation to Ethernet switches and the impact of virtual private networks this is your one stop source for the best most essential data communications expertise to be found anywhere The Communications Systems Management Handbook serves as an information tool for proven advice and methods on managing network services and costs creating

networking solutions and preparing for advanced communications network technologies IBM z/OS V1R13 Communications Server TCP/IP Implementation: Volume 2 Standard Applications Mike Ebbers, Rama Ayvar, Octavio L. Ferreira, Yohko Ojima, Gilson Cesar de Oliveira, Mike Riches, Maulide Xavier, IBM Redbooks, 2011-12-27 For more than 40 years IBM mainframes have supported an extraordinary portion of the world's computing work providing centralized corporate databases and mission critical enterprise wide applications The IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors providing among many other capabilities world class state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for ever more secure scalable and highly available mainframe TCP IP implementations The IBM z OS Communications Server TCP IP Implementation series provides understandable step by step guidance about how to enable the most commonly used and important functions of z OS Communications Server TCP IP This IBM Redbooks publication provides useful implementation scenarios and configuration recommendations for many of the TCP IP standard applications that z OS Communications Server supports For more specific information about z OS Communications Server standard applications high availability and security see the other volumes in the series IBM z OS V1R13 Communications Server TCP IP Implementation Volume 1 Base Functions Connectivity and Routing SG24 7996 IBM z OS V1R13 Communications Server TCP IP Implementation Volume 3 High Availability Scalability and Performance SG24 7998 IBM z OS V1R13 Communications Server TCP IP Implementation Volume 4 Security and Policy Based Networking SG24 7999 For comprehensive descriptions of the individual parameters for setting up and using the functions that we describe in this book along with step by step checklists and supporting examples see the following publications z OS Communications Server IP Configuration Guide SC31 8775 z OS Communications Server IP Configuration Reference SC31 8776 z OS Communications Server IP User's Guide and Commands SC31 8780 This book does not duplicate the information in those publications Instead it complements them with practical implementation scenarios that can be useful in your environment To determine at what level a specific function was introduced see z OS Communications Server New Function Summary GC31 8771 For complete details we encourage you to review the documents that are listed in the additional resources section at the end of each chapter IBM z/OS V1R13 Communications Server TCP/IP Implementation: Volume 1 Base Functions, Connectivity, and Routing Mike Ebbers, Rama Ayyar, Octavio L. Ferreira, Yohko Ojima, Gilson Cesar de Oliveira, Mike Riches, Maulide Xavier, IBM Redbooks, 2012-02-03 For more than 40 years IBM mainframes have supported an

extraordinary portion of the world's computing work providing centralized corporate databases and mission critical enterprise wide applications The IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors in providing among many other capabilities world class and state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for even more secure scalable and highly available mainframe TCP IP implementations The z OS Communications Server TCP IP Implementation series provides understandable step by step guidance about how to enable the most commonly used and important functions of z OS Communications Server TCP IP This IBM Redbooks publication is for people who install and support z OS Communications Server It introduces z OS Communications Server TCP IP discusses the system resolver showing implementation of global and local settings for single and multi stack environments It presents implementation scenarios for TCP IP base functions connectivity routing virtual MAC support and IBM z/OS V1R12 Communications Server TCP/IP Implementation: Volume 1 Base Functions, sysplex subplexing Connectivity, and Routing Mike Ebbers, Rama Ayyar, Octavio L. Ferreira, Gazi Karakus, Yukihiko Miyamoto, Joel Porterie, Andi Wijaya, IBM Redbooks, 2012-11-06 For more than 40 years IBM mainframes have supported an extraordinary portion of the world's computing work providing centralized corporate databases and mission critical enterprise wide applications. The IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors in providing among many other capabilities world class and state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for even more secure scalable and highly available mainframe TCP IP implementations The z OS Communications Server TCP IP Implementation series provides understandable step by step guidance about how to enable the most commonly used and important functions of z OS Communications Server TCP IP In this IBM Redbooks publication we provide an introduction to z OS Communications Server TCP IP We then discuss the system resolver showing the implementation of global and local settings for single and multi stack environments We present implementation scenarios for TCP IP Base functions Connectivity Routing Virtual MAC

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**ABCs of z/OS System Programming: Volume 4** Paul Rogers, IBM Redbooks, 2011-02-10 This IBM Redbooks publication describes the functions of z OS Communications Server z OS Communications Server provides a set of communications protocols that support peer to peer connectivity functions for both local and wide area networks including the most popular wide area network the Internet z OS Communications Server also provides performance enhancements that can benefit a variety of TCP IP applications z OS Communications Server provides both SNA and TCP IP networking protocols for z OS The SNA protocols are provided by VTAM and include Subarea Advanced Peer to Peer Networking and High Performance Routing protocols z OS Communications Server exploits z OS UNIX services even for traditional MVSTM environments and applications Prior to utilizing TCP IP services therefore a full function mode z OS UNIX environment including a Data Facility Storage Management Subsystem DFSMSdfp a z OS UNIX file system and a security product such as Resource Access Control Facility or RACF must be defined and active before z OS Communications Server can be started successfully The ABCs of z OS System Programming is a 13 volume collection that provides an introduction to the z OS operating system and the hardware architecture Whether you are a beginner or an experienced system programmer the ABCs collection provides the information that you need to start your research into z OS and related subjects If you want to become more familiar with z OS in your current environment or if you are evaluating platforms to consolidate your e business applications the ABCs collection will serve as a powerful technical tool The contents of the volumes are as follows Volume 1 Introduction to z OS and storage concepts TSO E ISPF JCL SDSF and z OS delivery and installation Volume 2 z OS implementation and daily maintenance defining subsystems JES2 and JES3 LPA LNKLST authorized libraries SMP E Language Environment Volume 3 Introduction to DFSMS data set basics storage management hardware and software catalogs and DFSMStvs Volume 4 Communication Server TCP IP and VTAM Volume 5 Base and Parallel Sysplex System Logger Resource Recovery Services RRS global resource serialization GRS z OS system operations automatic restart management ARM Geographically Dispersed Parallel SysplexTM GDPS Volume 6 Introduction to security RACF Digital certificates and PKI Kerberos cryptography and z990 integrated cryptography zSeries firewall technologies LDAP and

Enterprise identity mapping EIM Volume 7 Printing in a z OS environment Infoprint Server and Infoprint Central Volume 8 An introduction to z OS problem diagnosis Volume 9 z OS UNIX System Services Volume 10 Introduction to z Architecture zSeries processor design zSeries connectivity LPAR concepts HCD and HMC Volume 11 Capacity planning performance management RMFTM and SMF Volume 12 WLM Volume 13 JES3 IBM z/OS V1R13 Communications Server TCP/IP Implementation: Volume 3 High Availability, Scalability, and Performance Mike Ebbers, Rama Ayyar, Octavio L. Ferreira, Yohko Ojima, Gilson Cesar de Oliveira, Mike Riches, Maulide Xavier, IBM Redbooks, 2014-01-27 For more than 40 years IBM mainframes have supported an extraordinary portion of the world's computing work providing centralized corporate databases and mission critical enterprise wide applications The IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors in providing among many other capabilities world class and state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for even more secure scalable and highly available mainframe TCP IP implementations The IBM z OS Communications Server TCP IP Implementation series provides understandable step by step guidance about how to enable the most commonly used and important functions of z OS Communications Server TCP IP This IBM Redbooks publication is for people who install and support z OS Communications Server It starts with a discussion of virtual IP addressing VIPA for high availability with and without a dynamic routing protocol It describes several workload balancing approaches with the z OS Communications Server It also explains optimized Sysplex Distributor intra sysplex load balancing This function represents improved application support using optimized local connections together with weight values from extended Workload Manager WLM interfaces Finally this book highlights important tuning parameters and suggests parameter values to maximize performance in many client installations *IBM z/OS V1R12* Communications Server TCP/IP Implementation: Volume 3 High Availability, Scalability, and Performance Mike Ebbers, Rama Ayyar, Octavio L. Ferreira, Gazi Karakus, Yukihiko Miyamoto, Joel Porterie, Andi Wijaya, IBM Redbooks, 2011-05-04 For more than 40 years IBM mainframes have supported an extraordinary portion of the world's computing work providing centralized corporate databases and mission critical enterprise wide applications The IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors providing among many other capabilities world class state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed

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**SNA Interconnections** John Chiong, 1996 Although IBM s propriety networking protocol SNA still dominates the enterprise its future depends on improved networking with TCP IP and OSI environments Even the new SNA cannot easily be internetworked with its predecessor Whether you work in mainframe AS 400 or desktop environments this book gives you unbiased technical advice based on real implementations **Top-down Network Design** Priscilla Oppenheimer, 1999 Top Down Network Design is a practical and comprehensive guide to designing enterprise networks that are reliable secure and manageable Using illustrations and real world examples it teaches a systematic method for network design that can be applied to campus LANs remote access networks WAN links and large scale internetworks BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved Exploring IBM EServer ZSeries and S/390 Servers Jim Hoskins, Bob Frank, 2003 Considered the bible of the IBM zSeries and S 390 world this new edition closely examines the role large computers will play in the new century All the new hardware models and operating system products Linux VSE MVS VM AIX and Open Edition are now available for the zSeries and are fully explained as are critical business issues such as cost justification lease versus purchase support security and maintenance Hypothetical small medium and large businesses are described and then outfitted with the appropriate zSeries solution This replaces 1885068700 The Practical Handbook of Internet Computing Munindar P. Singh, 2004-09-29 The Practical Handbook of Internet Computing analyzes a broad array of technologies and concerns related to the Internet including corporate intranets Fresh and insightful articles by recognized experts address the key challenges facing Internet users designers integrators and policymakers In addition to discussing major applications it also Introduction to the New Mainframe: IBM z/VSE Basics Mike Ebbers, Wolfgang Bosch, Hans Joachim Ebert, Helmut Hellner, Jerry Johnston, Marco Kroll, Wilhelm Mild, Wayne O'Brien, Bill Ogden, Ingolf Salm, Joerg Schmidbauer, Martin Walbruehl, IBM Redbooks, 2016-03-02 This IBM Redbooks publication is based on the book

Introduction to the New Mainframe z OS Basics SG24 6366 which was produced by the International Technical Support Organization ITSO Poughkeepsie Center It provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer For optimal learning students are assumed to have successfully completed an introductory course in computer system concepts such as computer organization and architecture operating systems data management or data communications. They should also have successfully completed courses in one or more programming languages and be PC literate This textbook can also be used as a prerequisite for courses in advanced topics or for internships and special studies It is not intended to be a complete text covering all aspects of mainframe operation It is also not a reference book that discusses every feature and option of the mainframe facilities Others who can benefit from this course include experienced data processing professionals who have worked with non mainframe platforms or who are familiar with some aspects of the mainframe but want to become knowledgeable with other facilities and benefits of the mainframe environment As we go through this course we suggest that the instructor alternate between text lecture discussions and hands on exercises Many of the exercises are cumulative and are designed to show the student how to design and implement the topic presented The instructor led discussions and hands on exercises are an integral part of the course and can include topics not covered in this textbook In this course we use simplified examples and focus mainly on basic system functions Hands on exercises are provided throughout the course to help students explore the mainframe style of computing At the end of this course you will be familiar with the following information Basic concepts of the mainframe including its usage and architecture Fundamentals of IBM z VSE VSE an IBM zTM Systems entry mainframe operating system OS An understanding of mainframe workloads and the major middleware applications in use on mainframes today The basis for subsequent course work in more advanced specialized areas of z VSE such as system administration or Network World ,1997-01-13 For more than 20 years Network World has been the premier application programming provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic Network World, 1993-12-20 For more than 20 years Network World has been the premier provider of commerce information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce InfoWorld ,1991-09-16 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic

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