

# **IBM z/OS V1R12 Communications Server TCP/IP Implementation: Volume 2 Standard Applications**

Provides information about z/OS Communications  
Server TCP/IP standard applications

Discusses how to take advantage of TCP/IP  
standard applications for your needs

Includes TCP/IP application  
implementation examples



Mike Ebbers  
Rama Ayyar  
Octavio L. Ferreira  
Gazi Karakus  
Yukihiko Miyamoto  
Joel Porterie  
Andi Wijaya

# **Redbooks**

# Zos V1r12 0 Communications Server Ip Configuration Guide

**Bill White, Octavio Ferreira, Teresa  
Missawa, Teddy Sudewo, IBM Redbooks**

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## **Zos V1r12 0 Communications Server Ip Configuration Guide:**

*IBM z/OS V1R12 Communications Server TCP/IP Implementation: Volume 4 Security and Policy-Based Networking* Mike Ebberts, Rama Ayyar, Octavio L. Ferreira, Gazi Karakus, Yukihiro Miyamoto, Joel Porterie, Andi Wijaya, IBM Redbooks, 2011-07-27

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 provides 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 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 explains how to set up security for the z/OS networking environment. Network security requirements have become more stringent and complex. Because many transactions come from unknown users and untrusted networks, careful attention must be given to host and user authentication, data privacy, data origin authentication, and data integrity. We also include helpful tutorial information in the appendixes of this book because security technologies can be quite complex. For more specific information about z/OS Communications Server base functions, standard applications, and high availability, refer to the other volumes in the series.

*IBM z/OS V1R12*

*Communications Server TCP/IP Implementation: Volume 1 Base Functions, Connectivity, and Routing* Mike Ebberts, Rama Ayyar, Octavio L. Ferreira, Gazi Karakus, Yukihiro 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 support, and sysplex subplexing.

*IBM z/OS V1R12 Communications Server TCP/IP Implementation: Volume 3 High Availability, Scalability, and Performance* Mike Ebberts, Rama Ayyar, Octavio L. Ferreira, Gazi Karakus, Yukihiro 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 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. In this IBM Redbooks publication we begin with a discussion of Virtual IP Addressing (VIPA) a TCP/IP high availability approach that was introduced by the z OS Communications Server. We then show how to use VIPA for high availability both with and without a dynamic routing protocol. We also discuss a number of different workload balancing approaches that you can use with the z OS Communications Server. We also explain the optimized Sysplex Distributor intra sysplex load balancing. This function represents improved multitier application support using optimized local connections together with weight values from extended Workload Manager (WLM) interfaces. Finally we highlight the most important tuning parameters and suggest parameter values that we observed to maximize performance in many client installations.

*IBM z/OS V1R13 Communications Server TCP/IP Implementation: Volume 2 Standard Applications* Mike Ebberts, Rama Ayyar, 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

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IMS Integration and Connectivity Across the Enterprise Paolo Bruni,Jenny Hung,Knut Kubein,Evgeni Liakhovich,Geoff Nicholls,Gary Wicks,IBM Redbooks,2014-04-08 This IBM Redbooks publication gives a broad understanding of IBM IMSTM integration and connectivity solutions to access applications and data stores across your enterprise architecture As an application developer architect systems integrator or systems programmer there is important information that is available in this book that pertains to your responsibilities to continue to include the proven performance data integrity and workload distribution that is available from IMS in to selected projects that are related to your entire enterprise This book updates and adds to the information in the following IBM Redbooks publications IMS e business Connectors A Guide to IMS Connectivity SG24 6514 IMS Connectivity in an On Demand Environment A Practical Guide to IMS Connectivity SG24 6794 Powering SOA Solutions with IMS SG24 7662 IBM IMS Version 12 Technical Overview SG24 7972 IMS 12 The IMS Catalog REDP 4812 Rethink Your Mainframe Applications Reasons and Approaches for Extension Transformation and Growth REDP 4938

**z/OS Version 1 Release 13 Implementation** Paul Rogers,Diniz Bortolotto,Robert Hering,George Kozakos,Lutz Kuehner,Jean-Louis Lafitte,Diana Nakajima,Paulo Nascimento,Nelson

Oliveira, Gil Peleg, Giancarlo Rodolfi, Anthony Soares, Joao Zanon, IBM Redbooks, 2012-03-27 This IBM Redbooks publication provides information about installation and migration changes to be aware of if you are responsible for migrating systems from IBM z OS V1R10 z OS V1R11 and z OS V1R12 to z OS V1R13 It also highlights actions that are needed to prepare for the installation of z OS V1R12 including ensuring driving system and target system requirements are met and coexistence requirements are satisfied There is a special focus on identifying new migration actions that must be performed for selected elements when migrating to z OS V1R13 The book addresses the following topics z OS V1R13 overview z OS V1R13 installation managing volume backups with fast replication XCF enhancements console service enhancements DFSMSdftp DFSMSoam DFSMShsm ISPF enhancements DFSMSrmm enhancements establishing IBM RACF security for RRSF TCP IP connections GRS enhancements BCP supervisor contents supervisor and RSM updates improved channel recovery Service aids enhancements System Logger SMF z OS UNIX System Services z OS UNIX related applications RRS z OS Management Facility z OS HCD and HCM C language Storage management enhancements Common Information Model Predictive Failure Analysis Extended Address Volume BCPii Capacity Provisioning System SSL enhancements UNICODE IBM Language Environment SDSF enhancements JES2 enhancements JES3 enhancements IBM RMFTM enhancements IBM WebSphere Application Server OEM z OSMF CIM and Capacity Provisioning setups BCPii Metal C example      *Security Functions of IBM DB2 10 for z/OS* Paolo Bruni, Marcelo Antonelli, Hyun Baek, Rick Butler, Ernie Mancill, IBM Redbooks, 2011-09-14 IBM DB2 9 and 10 for z OS have added functions in the areas of security regulatory compliance and audit capability that provide solutions for the most compelling requirements DB2 10 enhances the DB2 9 role based security with additional administrative and other finer grained authorities and privileges This authority granularity helps separate administration and data access that provide only the minimum appropriate authority The authority profiles provide better separation of duties while limiting or eliminating blanket authority over all aspects of a table and its data In addition DB2 10 provides a set of criteria for auditing for the possible abuse and overlapping of authorities within a system In DB2 10 improvements to security and regulatory compliance focus on data retention and protecting sensitive data from privileged users and administrators Improvements also help to separate security administration from database administration DB2 10 also lets administrators enable security on a particular column or particular row in the database complementing the privilege model This IBM Redbooks publication provides a detailed description of DB2 10 security functions from the implementation and usage point of view It is intended to be used by database audit and security administrators      **IBM z13s Technical Guide** Octavian Lascu, Barbara Sannerud, Cecilia A. De Leon, Edzard Hoogerbrug, Ewerson Palacio, Franco Pinto, Jin J. Yang, John P. Troy, Martin Soellig, IBM Redbooks, 2016-11-10 Digital business has been driving the transformation of underlying information technology IT infrastructure to be more efficient secure adaptive and integrated IT must be able to handle the explosive growth of mobile clients and employees It also must be able to process enormous amounts of data to provide deep and real

time insights to help achieve the greatest business impact This IBM Redbooks publication addresses the new IBM z Systems™ single frame the IBM z13s server IBM z Systems servers are the trusted enterprise platform for integrating data transactions and insight A data centric infrastructure must always be available with a 99 999% or better availability have flawless data integrity and be secured from misuse It needs to be an integrated infrastructure that can support new applications It also needs to have integrated capabilities that can provide new mobile capabilities with real time analytics delivered by a secure cloud infrastructure IBM z13s servers are designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows z13s servers to deliver a record level of capacity over the prior single frame z Systems server In its maximum configuration the z13s server is powered by up to 20 client characterizable microprocessors cores running at 4 3 GHz This configuration can run more than 18 000 millions of instructions per second MIPS and up to 4 TB of client memory The IBM z13s Model N20 is estimated to provide up to 100% more total system capacity than the IBM zEnterprise BC12 Model H13 This book provides information about the IBM z13s server and its functions features and associated software support Greater detail is offered in areas relevant to technical planning It is intended for systems engineers consultants planners and anyone who wants to understand the IBM z Systems™ functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM z Systems technology and terminology

*IBM z13 Technical Guide* Octavian Lascu,Edzard Hoogerbrug,Cecilia A De Leon,Ewerson Palacio,Franco Pinto,Barbara Sannerud,Martin Soellig,John Troy,Jin Yang,IBM Redbooks,2016-11-11

Digital business has been driving the transformation of underlying IT infrastructure to be more efficient secure adaptive and integrated Information Technology IT must be able to handle the explosive growth of mobile clients and employees IT also must be able to use enormous amounts of data to provide deep and real time insights to help achieve the greatest business impact This IBM Redbooks publication addresses the IBM Mainframe the IBM z13™ The IBM z13 is the trusted enterprise platform for integrating data transactions and insight A data centric infrastructure must always be available with a 99 999% or better availability have flawless data integrity and be secured from misuse It needs to be an integrated infrastructure that can support new applications It needs to have integrated capabilities that can provide new mobile capabilities with real time analytics delivered by a secure cloud infrastructure IBM z13 is designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows the z13 to deliver a record level of capacity over the prior IBM z Systems™ In its maximum configuration z13 is powered by up to 141 client characterizable microprocessors cores running at 5 GHz This configuration can run more than 110 000 millions of instructions per second MIPS and up to 10 TB of client memory The IBM z13 Model NE1 is estimated to provide up to 40% more total system capacity than the IBM zEnterprise EC12 zEC1 Model HA1 This book provides information about the IBM z13 and its functions features and associated software support Greater detail is offered in areas relevant to technical

planning It is intended for systems engineers consultants planners and anyone who wants to understand the IBM z Systems functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM z Systems technology and terminology *Communications Server for Z/OS V1R2 TCP/IP Implementation Guide, Volume 7* IBM. Redbooks,2002 [Communications Server for Z/OS V1R2 TCP/IP Implementation Guide: Security](#) ,19?? **Communications Server for z/OS V1R2 TCP/IP Implementation Guide, Volume 5** IBM. Redbooks,2002 [IBM z/OS V2R2 Communications Server TCP/IP Implementation: Volume 4 Security and Policy-Based Networking](#) Bill White,Octavio Ferreira,Teresa Missawa,Teddy Sudewo,IBM Redbooks,2017-03-21 For more than 50 years IBM mainframes have supported an extraordinary portion of the world s computing work providing centralized corporate databases and mission critical enterprise wide applications IBM z Systems 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 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 is for people who install and support z OS Communications Server It explains how to set up security for your z OS networking environment With the advent of TCP IP and the Internet network security requirements have become more stringent and complex Because many transactions are from unknown users and untrusted networks such as the Internet careful attention must be given to host and user authentication data privacy data origin authentication and data integrity Also because security technologies are complex and can be confusing we include helpful tutorial information in the appendixes of this book For more information about z OS Communications Server base functions standard applications and high availability see the other following volumes in the series IBM z OS V2R2 Communications Server TCP IP Implementation Volume 1 Base Functions Connectivity and Routing SG24 8360 IBM z OS V2R2 Communications Server TCP IP Implementation Volume 2 Standard Applications SG24 8361 IBM z OS V2R2 Communications Server TCP IP Implementation Volume 3 High Availability Scalability and Performance SG24 8362 This book does not duplicate the information in these publications Instead it complements those publications with practical implementation scenarios that might be useful in your environment For more information about at what level a specific function was introduced see z OS Communications Server



New Function Summary GC31 8771      **Communications Server for Z/OS V1R2 TCP/IP Implementation Guide: Base and TN3270 configuration** Adolfo Rodriguez,2002      *IBM Z/OS V1R12 Communications Server TCP/IP Implementation, Volume 2, Standard Applications* Mike Ebbers,2011      **IBM Z/OS V1R12 Communications Server TCP/IP**

**Implementation** Mike Ebbers,Rama Ayyar,Octavio L. Ferreira,Gazi Karakus,Yukihiko Miyamoto,Joel Porterie,Andi Wijaya,2011 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 provides 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 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 explains how to set up security for the z OS networking environment Network security requirements have become more stringent and complex Because many transactions come from unknown users and untrusted networks careful attention must be given to host and user authentication data privacy data origin authentication and data integrity We also include helpful tutorial information in the appendixes of this book because security technologies can be quite complex      **IBM Z/OS V1R12 Communications Server TCP/IP**

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**Communications Server for Z/OS V1R2 TCP/IP Implementation Guide: Policy and network management** ,2002      Communications Server for Z/OS V1R2 TCP/IP Implementation Guide, Volume 4 IBM. Redbooks,2002      *Communications Server for Z/OS V1R2 TCP/IP Implementation Guide* Adolfo Rodriguez,International Business Machines Corporation. International Technical Support Organization,2002

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