

## IBM System z10 Enterprise Class (z10 EC) Reference Guide



# Ibm Z10 Manual

**Lydia Parziale,Saulo Silva,David  
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Mills,Qi Ye,IBM Redbooks**

## **Ibm Z10 Manual:**

**Server Time Protocol Implementation Guide** Octavian Lascu,Hans-Peter Eckam,George Kozakos,Paulo Vitor Pereira,IBM Redbooks,2016-11-01 Server Time Protocol STP is a server wide facility that is implemented in the Licensed Internal Code LIC of IBM zEnterprise EC12 zEC12 IBM zEnterprise 196 z196 IBM zEnterprise 114 z114 IBM System z10 and IBM System z9 It provides improved time synchronization in both a sysplex or non sysplex configuration This IBM Redbooks publication will help you configure a Mixed Coordinated Timing Network CTN or an STP only CTN It is intended for technical support personnel requiring information about Installing and configuring a Coordinated Timing Network Using STP functions and operations Migrating to a Coordinated Timing Network from various timing environments Readers are expected to be familiar with IBM System z technology and terminology For planning information see our companion book Server Time Protocol Planning Guide SG24 7280 For information about how to recover your STP environment functionality see the Server Time Protocol Recovery Guide SG24 7380

**IBM zEnterprise BC12 Technical Guide** Octavian Lascu,Hua Bin Chu,Ivan Dobos,Luiz Fadel,Wolfgang Fries,Parwez Hamid,Fernando E Nogal,Frank Packheiser,Ewerson Palacio,Martijn Raave,Vicente Ranieri Jr.,Andre Spahni,Chen Zhu,IBM Redbooks,2015-03-03 The popularity of the Internet and the affordability of information technology IT hardware and software have resulted in an explosion dramatic increase in the number of applications architectures and platforms Workloads have changed Many applications including mission critical ones are deployed on a variety of platforms and the IBM System z design has adapted to this change It takes into account a wide range of factors including compatibility and investment protection to match the IT requirements of an enterprise This IBM Redbooks publication provides information about the IBM zEnterprise BC12 zBC12 an IBM scalable mainframe server IBM is taking a revolutionary approach by integrating separate platforms under the well proven System z hardware management capabilities while extending System z qualities of service to those platforms The zEnterprise System consists of the zBC12 central processor complex the IBM zEnterprise Unified Resource Manager and the IBM zEnterprise BladeCenter Extension zBX The zBC12 is designed with improved scalability performance security resiliency availability and virtualization The zBC12 provides the following improvements over its predecessor the IBM zEnterprise 114 z114 Up to a 36% performance boost per core running at 4.2 GHz Up to 58% more capacity for traditional workloads Up to 62% more capacity for Linux workloads The zBX infrastructure works with the zBC12 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe IBM POWER7 and IBM System x technologies The federated capacity from multiple architectures of the zEnterprise System is managed as a single pool of resources integrating system and workload management across the environment through the Unified Resource Manager This book provides an overview of the zBC12 and its functions features and associated software support Greater detail is offered in areas relevant to technical planning This book is intended for systems engineers consultants planners and anyone who wants to understand zEnterprise

System 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 System z technology and terminology

### **Server Time Protocol Planning Guide**

Octavian Lascu,Hans-Peter Eckam,George Kozakos,Paulo Vitor Pereira,IBM Redbooks,2016-04-12 Server Time Protocol STP is a server wide facility that is implemented in the Licensed Internal Code LIC of the IBM zEnterprise Servers zEC12 z196 and z114 System z10TM Enterprise Class z10 EC System z10 Business Class z10 BC IBM System z9 Enterprise Class z9 EC System z9 Business Class z9 BC and zSeries z990 and z890 servers It provides improved time synchronization in a sysplex or non sysplex configuration This IBM Redbooks publication is intended for infrastructure architects and system programmers who need to understand the IBM STP functions Readers are expected to be generally familiar with System z technology and terminology This book provides planning information for Server Time Protocol functions and associated software support For more detailed installation operation and recovery information refer to the companion books Server Time Protocol

Implementation Guide SG24 7281 and Server Time Protocol Recovery Guide SG24 7380

### **Server Time Protocol**

**Recovery Guide** Octavian Lascu,Hans-Peter Eckam,George Kozakos,Paulo Vitor Pereira,IBM Redbooks,2014-05-20 Server Time Protocol STP is a server wide facility that is implemented in the Licensed Internal Code LIC of the IBM zEnterprise EC12 zEC12 IBM zEnterprise 196 z196 IBM zEnterprise 114 z114 IBM System z10TM Enterprise Class z10 EC System z10 Business Class z10 BC IBM System z9 Enterprise Class z9 EC and System z9 Business Class z9 BC It provides improved time synchronization in a sysplex or non sysplex configuration This IBM Redbooks publication will help you plan for and recover from a failure affecting your Mixed or STP only Coordinated Timing Network It is intended for technical support personnel requiring information about Recovery concepts and definitions Identifying and taking appropriate actions for recovering from a failed component in a Coordinated Timing Network Readers are expected to be familiar with IBM System z technology and terminology For planning information refer to our companion book Server Time Protocol Planning Guide SG24 7280 and for implementation details refer to Server Time Protocol Implementation Guide SG24 7281

### **IBM zEnterprise 196**

**Technical Guide** Bill White,Erik Bakker,Parwez Hamid,Octavian Lascu,Fernando Nogal,Frank Packeiser,Vicente Ranieri Jr.,Karl-Erik Stenfors,Esra Ufacik,Chen Zhu,IBM Redbooks,2012-03-19 The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications architectures and platforms Workloads have changed Many applications including mission critical ones are deployed on a variety of platforms and the System z design has adapted to this change It takes into account a wide range of factors including compatibility and investment protection to match the IT requirements of an enterprise The zEnterprise System consists of the IBM zEnterprise 196 central processor complex the IBM zEnterprise Unified Resource Manager and the IBM zEnterprise BladeCenter Extension The z196 is designed with improved scalability performance security resiliency availability and virtualization The z196 Model M80 provides up to 1 6 times the total system capacity of the z10TM EC Model E64 and all z196 models provide up to twice the available memory of

the z10 EC The zBX infrastructure works with the z196 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe POWER7™ and System x technologies Through the Unified Resource Manager the zEnterprise System is managed as a single pool of resources integrating system and workload management across the environment This IBM Redbooks publication provides an overview of the zEnterprise System and its functions features and associated software support Greater detail is offered in areas relevant to technical planning This book is intended for systems engineers consultants planners and anyone wanting to understand the zEnterprise System 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 System z technology and terminology The changes to this edition are based on the System z hardware announcement dated July 12 2011

IBM zEnterprise 114 Technical Guide Bill White, Octavian Lascu, Erik Bakker, Parwez Hamid, Fernando Nogal, Frank Packheiser, Vicente Ranieri Jr., Karl-Erik Stenfors, Esra Ufacik, Chen Zhu, IBM Redbooks, 2012-02-27 The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications architectures and platforms Workloads have changed Many applications including mission critical ones are deployed on a variety of platforms and the System z design has adapted to this change It takes into account a wide range of factors including compatibility and investment protection to match the IT requirements of an enterprise This IBM Redbooks publication discusses the IBM zEnterprise System an IBM scalable mainframe server IBM is taking a revolutionary approach by integrating separate platforms under the well proven System z hardware management capabilities while extending System z qualities of service to those platforms The zEnterprise System consists of the IBM zEnterprise 114 central processor complex the IBM zEnterprise Unified Resource Manager and the IBM zEnterprise BladeCenter Extension The z114 is designed with improved scalability performance security resiliency availability and virtualization The z114 provides up to 18% improvement in uniprocessor speed and up to a 12% increase in total system capacity for z OS z VM and Linux on System z over the z10™ Business Class BC The zBX infrastructure works with the z114 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe POWER7™ and System x technologies The federated capacity from multiple architectures of the zEnterprise System is managed as a single pool of resources integrating system and workload management across the environment through the Unified Resource Manager This book provides an overview of the zEnterprise System and its functions features and associated software support Greater detail is offered in areas relevant to technical planning This book is intended for systems engineers consultants planners and anyone wanting to understand the zEnterprise System 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 System z technology and terminology

**IBM zEnterprise System Technical Introduction** Ivan Dobos, Huabin Chu, Luiz Fadel, Wolfgang Fries, Octavian Lascu, Fernando Nogal, Frank Packheiser, Ewerson Palacio, Martijn Raave, Vicente Ranieri Jr., Andre Spahni, Chen Zhu, IBM

Redbooks,2014-03-31 In a smarter planet information centric processes are exploding in growth The mainframe has always been the IT industry s leading platform for transaction processing consolidated and secure data serving and support for available enterprise wide applications IBM has extended the mainframe platform to help large enterprises reshape their client experiences through information centric computing and to deliver on key business initiatives IBM zEnterprise is recognized as the most reliable and trusted system and the most secure environment for core business operations The new zEnterprise System consists of the IBM zEnterprise EC12 zEC12 or IBM zEnterprise BC12 zBC12 the IBM zEnterprise Unified Resource Manager and the IBM zEnterprise IBM BladeCenter Extension zBX Model 003 This IBM Redbooks publication describes the zEC12 and zBC12 with their improved scalability performance security resiliency availability and virtualization The zEnterprise System has no peer as a trusted platform that also provides the most efficient transaction processing and database management With efficiency at scale delivering significant cost savings on core processes resources can be freed up to focus on developing new services to drive growth This book provides a technical overview of the zEC12 zBC12 zBX Model 003 and Unified Resource Manager This publication is intended for IT managers architects consultants and anyone else who wants to understand the elements of the zEnterprise System For this introduction to the zEnterprise System readers are not expected to be familiar with current IBM System z technology and terminology **IBM System Z10**

**Enterprise Class Technical Guide** Franck Injey,2008 [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 **IBM zEnterprise EC12 Technical Guide** Octavian Lascu,Ivan Dobos,Wolfgang Fries,Hua Bin Chu,Luiz Fadel,Martijn Raave,Fernando Nogal,Frank Packheiser,Vicente Ranieri,Ewerson Palacio,Andre Spahni,Chen Zhu,Parwez Hamid,IBM Redbooks,2015-03-04 The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications architectures and platforms Workloads have changed Many applications including mission critical ones are deployed on various platforms and the IBM System z design has adapted to this change It takes into account a wide range of factors including compatibility and investment protection to match the IT requirements of an enterprise This IBM Redbooks publication addresses the new IBM zEnterprise System This system consists of the IBM zEnterprise EC12 zEC12 an updated IBM zEnterprise Unified Resource Manager and the IBM zEnterprise BladeCenter Extension zBX Model 003 The zEC12 is designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows the zEC12 to deliver a record level of capacity over the prior System z servers It is powered by 120 of the world s most powerful microprocessors These microprocessors run at 5.5 GHz and are capable of running more than 75 000 millions of instructions per second MIPS The zEC12 Model HA1 is estimated to provide up to 50% more total system capacity than the IBM zEnterprise 196 z196 Model M80 The zBX Model 003 infrastructure works with the zEC12 to enhance System z virtualization and management It does so through an integrated hardware platform that spans mainframe IBM POWER7 and IBM System x technologies Through the Unified Resource Manager the zEnterprise System is managed as a single pool of resources integrating system and workload management across the environment This book provides information about the zEnterprise System 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 zEnterprise System 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 System z technology and terminology **System z End-to-End Extended Distance Guide** Frank Kyne,Jack Consoli,Richard Davey,Gary Fisher,Iain Neville,Mauricio Nogueira,Fabio Pereira,Giancarlo Rodolfi,Ulrich Schlegel,IBM Redbooks,2014-03-06 This IBM Redbooks publication will help you design and manage an end to end extended distance connectivity architecture for IBM System z This solution addresses your requirements now and positions you to make effective use of new technologies in the future Many enterprises implement extended distance connectivity in a silo manner However effective extended distance solutions require the involvement of different teams within an organization Typically there is a network group a storage group a systems group and possibly other teams The intent of this publication is to help you design and manage a solution that will provide for all of your System z extended distance needs in the most effective and

flexible way possible This book introduces an approach to help plan optimize and maintain all of the moving parts of the solution together **IBM zEnterprise EC12 Configuration Setup** Karan Singh,Sandra Tomoko Minami Abe,Srikanth R. Adige,Lei Ming Cao,Joao Francisco Veiga Kiffer,Woojin Lee,Gianmauro De Marchi,Kazuhiro Nakajima,Botrous Thalouth,IBM Redbooks,2013-05-28 This IBM Redbooks publication helps you install configure and maintain the IBM zEnterprise EC12 server The zEC12 offers new functions that require a comprehensive understanding of the available configuration options This book presents configuration setup scenarios and describes implementation examples in detail This book is intended for systems engineers hardware planners and anyone who needs to understand IBM System z configuration and implementation Readers should be generally familiar with current IBM System z technology and terminology For details about the zEC12 server see IBM zEnterprise EC12 Technical Introduction SG24 8050 and IBM zEnterprise EC12 Technical Guide SG24 8049

*Set up Linux on IBM System z for Production* Lydia Parziale,Saulo Silva,David Borges De Sousa,Livio Sousa,Junius Mills,Qi Ye,IBM Redbooks,2013-11-25 This IBM Redbooks publication shows the power of IBM System z virtualization and flexibility in sharing resources in a flexible production environment In this book we outline the planning and setup of Linux on System z to move from a development or test environment into production As an example we use one logical partition LPAR with shared CPUs with memory for a production environment and another LPAR that shares some CPUs but also has a dedicated one for production Running in IBM z VM mode allows for virtualization of servers and based on z VM shares can prioritize and control their resources The size of the LPAR or z VM resources depends on the workload and the applications that run that workload We examine a typical web server environment Java applications and describe it by using a database management system such as IBM DB2 Network decisions are examined with regards to VSWITCH shared Open Systems Adapter OSA IBM HiperSockets™ and the HiperPAV or FCP SCSI attachment used with a storage area network SAN Volume Controller along with performance and throughput expectations The intended audience for this IBM Redbooks publication is IT architects who are responsible for planning production environments and IT specialists who are responsible for implementation of production environments **IBM zEnterprise 196 Configuration Setup** Mike Ebberts,Tom

Carielli,Wolfgang Fries,Peter A. Hoyle,Frank Packheiser,John P. Troy,Quan Yuan,IBM Redbooks,2011-05-09 This IBM Redbooks publication helps you install configure and maintain the IBM zEnterprise 196 server The z196 offers new functions that require a comprehensive understanding of the available configuration options This book presents configuration setup scenarios and discusses implementation examples in detail This book is intended for systems engineers hardware planners and anyone who needs to understand IBM System z configuration and implementation Readers should be generally familiar with current IBM System z technology and terminology For details about the z196 server see IBM zEnterprise System Technical Introduction SG24 7832 and IBM zEnterprise System Technical Guide SG24 7833 **z/VM and Linux on IBM System z: The Virtualization Cookbook for SLES 11 SP1** Michael MacIsaac,Marian Gasparovic,IBM



Redbooks,2011-02-22 This IBM Redbooks publication describes how to create your own Linux virtual servers on IBM System z hardware under z VM It adopts a cookbook format that provides a concise repeatable set of procedures for installing and configuring z VM in an LPAR and then installing and customizing Linux You need an IBM System z logical partition LPAR with associated resources z VM 6 1 media and SLES 11 SP1 Linux for System z This book assumes that you have a general familiarity with System z technology and terminology It does not assume an in depth understanding of z VM and Linux It is written for those who want to get a quick start with z VM and Linux on the mainframe **IBM System Z10 Enterprise Class Technical Guide** ,2009 *An Introduction to z/VM Single System Image (SSI) and Live Guest Relocation (LGR)* Lydia Parziale,Anthony Bongiorno,Howard Charter,Jo Johnston,Volker Masen,Clovis Pereira,Sreehari Somasundaran,Srivatsan Venkatesan,IBM Redbooks,2016-03-31 IBM z VM 6 2 introduces significant changes to z VM in the form of multi system clustering technology allowing up to four z VM instances in a single system image SSI cluster This technology is important because it offers clients an attractive alternative to vertical growth by adding new z VM systems In the past this capability required duplicate efforts to install maintain and manage each system With SSI these duplicate efforts are reduced or eliminated Support for live guest relocation LGR allows you to move Linux virtual servers without disruption to the business helping you to avoid planned outages The z VM systems are aware of each other and can take advantage of their combined resources LGR enables clients to avoid loss of service due to planned outages by relocating guests from a system requiring maintenance to a system that remains active during the maintenance period Together the SSI and LGR technologies offer substantial client value and they are a major departure from past z VM practices This IBM Redbooks publication gives you a broad understanding of the new SSI architecture and an overview of LGR We show an LGR example that shows a typical SAP user environment In our example the SAP Application Server Central Instance resides on a Linux on System z guest and an IBM DB2 10 database server runs on z OS This book is written for IT architects who design the systems and IT specialists who build the systems **z/VM and Linux on IBM System z: The Virtualization Cookbook for Red Hat Enterprise Linux 6.0** Michael MacIsaac,Brad Hinson,IBM Redbooks,2011-02-18 This IBM Redbooks publication describes how to create Linux virtual servers in IBM z VM on IBM System z hardware This book adopts a cookbook format that provides a concise repeatable set of procedures for installing and configuring z VM in a logical partition LPAR and then installing and customizing Linux You need an IBM System z LPAR with the associated resources z VM V6 1 media and a Linux distribution This book assumes that you have a general familiarity with System z technology and terminology It does not assume an in depth understanding of z VM and Linux It is written for those clients who want to get a quick start with z VM and Linux on the mainframe **IBM System Z10 Enterprise Class Technical Guide** Per Fremstad,2009 **IBM DS8870 Architecture and Implementation (Release 7.5)** Bertrand Dufrasne,Werner Bauer,Artur Borowicz,Adrian Orben,Robert Tondini,Bob Xiao,IBM Redbooks,2017-09-19 This IBM Redbooks publication describes the concepts architecture and

implementation of the IBM DS8870 The WhitepaperRedpaperbook provides reference information to assist readers who need to plan for install and configure the DS8870 The IBM DS8870 is the most advanced model in the IBM DS8000 series and is equipped with IBM POWER7™ based controllers Various configuration options are available that scale from dual 2 core systems up to dual 16 core systems with up to 1 TB of cache The DS8870 features an integrated High Performance Flash Enclosure HPFE with flash cards that can deliver up to 250 000 IOPS and up to 3.4 GBps bandwidth A High Performance All Flash configuration is also available The DS8870 now features 16 Gbps host adapters Connectivity options with up to 128 Fibre Channel IBM FICON ports for host connections make the DS8870 suitable for multiple server environments in open systems and IBM z™ Systems environments DS8870 Release 7.5 brings new and enhanced IBM z Systems™ synergy features These features are covered in detail in IBM DS8870 and IBM z Systems Synergy REDP 5186 The DS8870 supports advanced disaster recovery solutions business continuity solutions and thin provisioning All disk drives in the DS8870 storage system have the Full Disk Encryption FDE feature The DS8870 also can be integrated in a Lightweight Directory Access Protocol LDAP infrastructure The DS8870 can automatically optimize the use of each storage tier particularly flash drives and flash cards through the IBM Easy Tier feature which is available at no extra charge This edition applies the IBM DS8870 Release 7.5

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