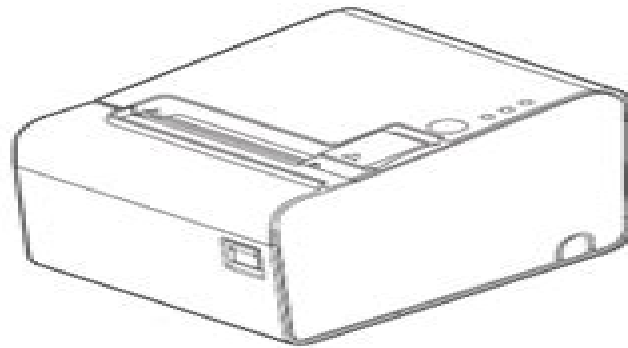


# TM-L90



# Z Os 111 Manuals

**Octavian Lascu, IBM Redbooks**



# Z Os 111 Manuals

OSA-Express Implementation Guide Mike Ebbers, Wonjin Chung, Dody Kurniadi, Joselito Manoto, IBM Redbooks, 2014-06-04 This IBM Redbooks publication will help you to install tailor and configure the Open Systems Adapter OSA features that are available on IBM zEnterprise servers It focuses on the hardware installation and the software definitions that are necessary to provide connectivity to LAN environments This information will help you with planning and system setup This book also includes helpful utilities and commands for monitoring and managing the OSA features This information will be helpful to systems engineers network administrators and system programmers who plan for and install OSA features The reader is expected to have a good understanding of IBM System z hardware Hardware Configuration Definition HCD or the input output configuration program IOCP Open Systems Adapter Support Facility OSA SF Systems Network Architecture Advanced Peer to Peer Networking SNA APPN and TCP IP protocol **System Programmer's Guide to Z/OS System Logger** Frank Kyne, 2007 The z OS System Logger is a function provided by the operating system to exploiters running on z OS The number of exploiters of this component is increasing as is its importance in relation to system performance and availability This IBM Redbooks document provides system programmers with a solid understanding of the System Logger component and guidance about how it should be set up for optimum performance with each of the exploiters System Logger is an MVS component that provides a logging facility for applications running in a single system or multi system sysplex The advantage of using System Logger is that the responsibility for tasks such as saving the log data with the requested persistence retrieving the data potentially from any system in the sysplex archiving the data and expiring the data is removed from the creator of the log records In addition Logger provides the ability to have a single merged log containing log data from multiple instances of an application within the sysplex **Getting Started with z/OS Data Set Encryption** Bill White, Cecilia Carranza Lewis, Eysha Shirrine Powers, David Rossi, Eric Rossman, Andy Coulsonr, Jacky Doll, Brad Habbershow, Thomas Liu, Ryan McCarry, Philippe Richard, Romoaldo Santos, Isabel Arnold, Kasper Lindberg, IBM Redbooks, 2021-12-10 This IBM Redpaper Redbooks publication provides a broad explanation of data protection through encryption and IBM Z pervasive encryption with a focus on IBM z OS data set encryption It describes how the various hardware and software components interact in a z OS data set encryption environment In addition this book concentrates on the planning and preparing of the environment and offers implementation configuration and operational examples that can be used in z OS data set encryption environments This publication is intended for IT architects system programmer and security administrators who plan for deploy and manage security on the Z platform The reader is expected to have a basic understanding of IBM Z security concepts *ABCs of IBM z/OS System Programming Volume 1* Lydia Parziale, Luiz Fadel, Stanley Jon, IBM Redbooks, 2018-01-22 The ABCs of IBM 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 Whether you want to become more familiar with z OS in your current environment or you are evaluating platforms to consolidate your online business applications the ABCs collection will serve as a powerful technical tool Volume 1 provides an updated understanding of the software and IBM zSeries architecture and explains how it is used together with the z OS operating system This includes the main components of z OS needed to customize and install the z OS operating system This edition has been significantly updated and revised *z/OS Version 1 Release 11 Implementation* Paul Rogers,Robert Hering,Lutz Kuhner,George Kozakos,Jean-Louis Lafitte,Jacqueline Mourao,Edison da Silva Nunes,Gil Peleg,Evanir Philipi,Giancarlo Rodolfi,IBM Redbooks,2010-04-07 This IBM Redbooks publication positions the new z OS Version 1 Release 11 for migration by discussing many of the new functions that are available The goal for the z OS platform is to eliminate automate and simplify tasks without sacrificing z OS strengths and to deliver a z OS management facility that is easy to learn and use z OS is a highly secure scalable high performance enterprise operating system on which to build and deploy Internet and Java™ enabled applications providing a comprehensive and diverse application execution environment This books describes the following new and changed functions IBM z OS Management Facility Allocation enhancements in z OS V1R11 BCPii function enhancements in z OS V1R11 JES2 and JES3 enhancements zFS file sharing enhancements Extended access volume enhancements Choosing whether to run zAAP work on zIIP processors System REXX enhancements in V1R11 RRS global panel options Service aids enhancements in V1R11 GRS ENQ contention notification enhancements and analysis for GRS latches Basic HyperSwap support enhancement Message Flood Automation enhancements Program Management new Binder IEWPARMS Predictive failure analysis PFA SMF enhancements in V1R11 System Logger enhancements XCF XES enhancements in V1R11 AutoIPL support Displaying PDSE caching statistics ISPF enhancements IBM Health Checker for z OS enhancements IBM z/OS Management Facility V2R3 Redelf Janssen,Tobias Rotthove,IBM Redbooks,2019-12-13 This IBM Redbooks publication helps you install configure and use the IBM z OS Management Facility z OSMF z OSMF is a product for z OS that simplifies optimizes and modernizes the z OS system programmer experience z OSMF delivers solutions in a task oriented web browser based user interface with integrated user assistance The goal of z OSMF is to improve system programmer productivity and make functions easier to understand and use This improvement makes system programmers more productive as quickly as possible with the least amount of training You can automate tasks reduce the learning curve and improve productivity through a modern simplified and intuitive task based browser based interface z OSMF is aimed at a mixed skills workforce It is suited to professionals who are new to z OS and those who are skilled in z OS Each professional has their own needs and faces their own challenges Novice system programmer might need to understand the big picture and how procedures are done Novices also need access to documentation about procedures

and tasks and implement them according to the rules of the enterprise Experienced system programmers are familiar with tasks and procedures Therefore the goal is to make their work less error prone and easier This goal allows them to be more productive and contribute more to their business Although z OS delivered simplification since it was introduced z OSMF brings a new dimension and focus to simplification z OSMF simplifies and modernizes the user experience and helps make pertinent information readily available and easily accessible ABCs of z/OS System Programming Volume 13 Paul Rogers, Juha Vainikainen, IBM Redbooks, 2012-02-07 A major goal of operating systems is to process jobs while making the best use of system resources Thus one way of viewing operating systems is as resource managers Before job processing operating systems reserve input and output resources for jobs During job processing operating systems manage resources such as processors and storage After job processing operating systems free all resources used by the completed jobs making the resources available to other jobs This process is called resource management There is more to the processing of jobs than the managing of resources needed by the jobs At any instant a number of jobs can be in various stages of preparation processing and post processing activity To use resources efficiently operating systems divide jobs into parts They distribute the parts of jobs to queues to wait for needed resources Keeping track of where things are and routing work from queue to queue is called workflow management and is a major function of any operating system JES3 considers job priorities device and processor alternatives and installation specified preferences in preparing jobs for processing job output This IBM Redbooks publication describes a JES3 environment that includes the following Single system image Workload balancing Availability Control flexibility Physical planning flexibility **Manual for the Solution of Military Ciphers** Parker Hitt, 1916 **IBM System z Personal Development Tool: Volume 3 Additional Topics** Bill Ogden, IBM Redbooks, 2013-06-28 This IBM Redbooks publication introduces the IBM System z Personal Development Tool zPDT which runs on an underlying Linux system based on an Intel processor zPDT provides a System z system on a PC capable of running current System z operating systems including emulation of selected System z I O devices and control units It is intended as a development demonstration and learning platform it is not designed as a production system This book discussing more advanced topics is the last of three volumes The first volume introduces zPDT and provides reference material for zPDT commands and device managers The second volume describes the installation of zPDT including the underlying Linux and a particular z OS distribution and basic usage patterns The third volume discusses more advanced topics that may not interest all zPDT users The IBM order numbers for the three volumes are SG24 7721 SG24 7722 and SG24 7723 The systems discussed in these volumes are complex with elements of Linux for the underlying PC machine z Architecture for the core zPDT elements System z I O functions for emulated I O devices and z OS providing the System z application interface and possibly with other System z operating systems We assume the reader is familiar with the general concepts and terminology of System z hardware and software elements and with basic PC Linux characteristics **Db2 for z/OS Utilities in Practice**

Craig Friske, Hendrik Mynhardt, IBM Redbooks, 2018-09-25 As IBM continues to enhance the functionality performance and availability of IBM Db2 the utilities have made significant strides towards self management IBM Db2 for z OS utilities is leading the trend towards autonomies During the last couple of versions of Db2 for z OS and through the maintenance stream new features and enhancements have been delivered to further improve the performance and functionality of the Db2 utilities The intent of this IBM Redpaper™ publication is to help Db2 Database Administrators Db2 System Programmers and anyone who runs Db2 for z OS utilities implement best practices The intent of this paper is not to replicate the Db2 for z OS Utilities Reference Guide or the Db2 for z OS Installation Guide This paper describes and informs you how to apply real life practical preferred practices for the IBM Db2 for z OS Utilities Suite The paper concentrates on the enhancements provided by Db2 utilities regardless of the version albeit some functions and features are available only in Db2 12 for IBM z OS

**Running Mainframe z on Distributed Platforms** Kenneth Barrett, Stephen Norris, 2014-03-18 Running Mainframe z on Distributed Platforms is particularly suitable for a more detailed discussion Bill Ogden IBM zPDT Redbook April 2015 The authors offer very well reasoned solutions accompanied by case studies which will be useful to specialists The book is made even more useful as the System z mainframe based solutions offer an advanced systems management environment for significant segments of data within large companies Eugen Petac Computing Reviews Oct 8 2014 Should you choose to implement zPDT RDz UT or RD T in your team s arsenal you will find Barrett and Norris s insights genius and hard work illuminating as to how to rationally and economically manage the environment Scott Fagen Chief Architect System z Business CA Technologies A must read for anyone interested in successfully deploying cost efficient zPDT environments with agility in an enterprise that requires simple or complex configurations The case study based exposition of the content allows for its easy consumption and use Excellent Mahendra Durai SVP Information Technology Officer CA Running Mainframe z on Distributed Platforms reveals alternative techniques not covered by IBM for creatively adapting and enhancing multi user IBM zPDT environments so that they are more friendly stable and reusable than those envisaged by IBM The enhancement processes and methodologies taught in this book yield multiple layers for system recovery 24x7 availability and superior ease of updating and upgrading operating systems and subsystems without having to rebuild environments from scratch Most of the techniques and processes covered in this book are not new to either the mainframe or distributed platforms What is new in this book are the authors innovative methods for taking distributed environments running mainframe virtual machine VM and multiple virtual storage MVS and making them look and feel like other MVS systems The authors combined expertise involves every aspect of the implementation of IBM zPDT technology to create virtualized mainframe environments by which the mainframe operations on a z series server can be transitioned to distributed platforms All of the enhancement methods consecutively laid out in this book have been architected and developed by the authors for the CA Technologies distributed platform Barrett and Norris impart these techniques and processes to CIOs and CTOs across the mainframe and distributed

fields to zPDT and RDz UT implementers and to IBM's independent software vendors and customers [ABCs of IBM z/OS System Programming Volume 3](#) Jose Gilberto Biondo Jr., IBM Redbooks, 2018-01-19 The ABCs of IBM 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. The ABCs collection serves as a powerful technical tool to help you become more familiar with z/OS in your current environment or to help you evaluate platforms to consolidate your e-business applications. This edition is updated to z/OS Version 2 Release 3. The other volumes contain the following content:

Volume 1 Introduction to z/OS and storage concepts TSO E ISPF JCL SDSF and z/OS delivery and installation  
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Volume 4 Communication Server TCP/IP and IBM VTAM  
Volume 5 Base and IBM Parallel Sysplex System Logger Resource Recovery Services RRS global resource serialization GRS z/OS system operations automatic restart manager ARM IBM Geographically Dispersed Parallel Sysplex™ IBM GDPS  
Volume 6 Introduction to security IBM 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 IBM z Architecture the IBM Z platform IBM Z connectivity LPAR concepts HCD and DS Storage Solution  
Volume 11 Capacity planning performance management WLM IBM RMFTM and SMF  
Volume 12 WLM  
Volume 13 JES3 JES3 SDSF

[Mainframe from Scratch: Hardware Configuration and z/OS Build](#) Keith Winnard, Bertus Bekker, Rafael Carvalho A. Lima, Nilkanth Patwardhan, Zheng Zhao, Hui Zhou, IBM Redbooks, 2016-12-22 This IBM Redbooks publication helps you install, customize, and configure an IBM z13 and build z/OS environments. This book is intended for those readers who are new to the platform and are faced with the task of installing a mainframe for the first time. By the term mainframe in this instance, we refer to the hardware and the system software. The intention is to show you how this installation can be done. Volume 1 shows you how we set up a mainframe and installed z/OS V2R2 and IBM DB2 V11. The starting point is a basic hardware configuration of an IBM z13 and DS8000 as shipped from the factory. Volume 1 shows you how the following milestones were achieved: Creating a configuration for the Customized Offering Driver COD system, Stand alone restoration of the COD, Expanding the configuration, Installing the z/OS V2R2 ServerPac, Loading and running IVPs for z/OS ServerPac, Installing DB2 ServerPac and IVPs. This publication includes figures that show you how the initial builds were achieved. For this book, we designed a scenario and show you how to build that scenario step by step. Although your requirements likely differ from our scenario, we intend to provide you with an example to show you how it can be done and samples and downloadable materials that you can choose to modify to bring you closer to

meeting your needs This book is divided into the following parts Part 1 Overview and Planning In this part we introduce you to how we approached the project Part 2 Configuration and builds In this part we describe the tasks that must be completed to create the initial build for the scenario that is described in Part 1

**IBM z15 (8562) Technical Guide** Octavian Lasca, IBM Redbooks, 2021-04-28 This IBM Redbooks publication describes the features and functions the latest member of the IBM Z platform the IBM z15™ Model T02 machine type 8562 It includes information about the IBM z15 processor design I O innovations security features and supported operating systems The z15 is a state of the art data and transaction system that delivers advanced capabilities which are vital to any digital transformation The z15 is designed for enhanced modularity which is in an industry standard footprint This system excels at the following tasks Making use of multicloud integration services Securing data with pervasive encryption Accelerating digital transformation with agile service delivery Transforming a transactional platform into a data powerhouse Getting more out of the platform with IT Operational Analytics Accelerating digital transformation with agile service delivery Revolutionizing business processes Blending open source and Z technologies This book explains how this system uses new innovations and traditional Z strengths to satisfy growing demand for cloud analytics and open source technologies With the z15 as the base applications can run in a trusted reliable and secure environment that improves operations and lessens business risk

*ABCs of IBM z/OS System Programming Volume 2* Lydia Parziale, Guillermo Cosimo, Lutz Kuehner, IBM Redbooks, 2018-04-07 The ABCs of IBM 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 can serve as a powerful technical tool This volume describes the basic system programming activities related to implementing and maintaining the z OS installation and provides details about the modules that are used to manage jobs and data It covers the following topics Overview of the parmlib definitions and the IPL process The parameters and system data sets necessary to IPL and run a z OS operating system are described along with the main daily tasks for maximizing performance of the z OS system Basic concepts related to subsystems and subsystem interface and how to use the subsystem services that are provided by IBM subsystems Job management in the z OS system using the JES2 and JES3 job entry subsystems It provides a detailed discussion about how JES2 and JES3 are used to receive jobs into the operating system schedule them for processing by z OS and control their output processing The link pack area LPA LNKLST authorized libraries and the role of VLF and LLA components An overview of SMP E for z OS An overview of IBM Language Environment architecture and descriptions of Language Environment s full program model callable services storage management model and debug information Other volumes in this series include the following content Volume 1 Introduction to z OS and storage concepts TSO E ISPF JCL



SDSF and z OS delivery and installation Volume 3 Introduction to DFSMS data set basics storage management hardware and software catalogs and DFSMSStvs Volume 4 Communication Server TCP IP and IBM VTAM Volume 5 Base and IBM Parallel Sysplex System Logger Resource Recovery Services RRS global resource serialization GRS z OS system operations automatic restart management ARM IBM Geographically Dispersed Parallel Sysplex™ IBM GDPS Volume 6 Introduction to security IBM 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 IBM z Architecture the IBM Z platform and IBM Z connectivity LPAR concepts HCD and the DS Storage Solution Volume 11 Capacity planning performance management WLM IBM RMFTM and SMF Volume 12 WLM Volume 13 JES3 JES3 SDFS

Streamline Business with Consolidation and Conversion to DB2 for z/OS Paolo Bruni, Marcos Caurim, Elise Gotay, Susan Lawson, Glenn McGeoch, Rebecca Poole, IBM Redbooks, 2014-11-05 Time to market flexibility and cost reduction are among the top concerns common to all IT executives If significant resource investments are placed in mature systems IT organizations need to balance old and new technology Older technology such as non IBM pre relational databases is costly inflexible and non standard Users store their information on the mainframe and thus preserve the skills and qualities of service their business needs But users also benefit from standards based modernization by migrating to IBM DB2 for z OS With this migration users deliver new application features quickly and respond to changing business requirements more effectively When migrating the main decision is choosing between conversion and re engineering Although the rewards associated with rebuilding mature applications are high so are the risks and customers that are embarking on a migration need that migration done quickly In this IBM Redbooks publication we examine how to best approach the migration process by evaluating the environment assessing the application as a conversion candidate and identifying suitable tools This publication is intended for IT decision makers and database administrators who are considering migrating their information to a modern database management system

System Programmer's Guide to Workload Manager IBM Redbooks, 2007-01-01

z/OS V1.11 DFSMS Release Guide Mary Lovelace, Andre Luiz Coelho Da Silva, Anthony Fletcher, Juergen Hoerner, Norbert Schlumberger, Hien Troung, Craig Vernon, IBM Redbooks, 2010-11-19 Each release of data facility storage management subsystem DFSMS builds upon the previous version to provide enhanced storage management data access device support program management and distributed data access for the z OS platform in a system managed storage environment This IBM Redbooks publication provides a summary of the functions and enhancements in z OS V1R11 DFSMS It provides you with the information that you need to understand and evaluate the content of this DFSMS release along with practical implementation hints and tips Also included are enhancements that were made available through an enabling PTF that has been integrated into z OS DFSMS V1R11 This book was written for storage professionals and

system programmers who have experience with the components of DFSMS It provides sufficient information so that you can start prioritizing the implementation of new functions and evaluating their applicability in your DFSMS environment **IBM**

**z/OS Mainframe Security and Audit Management Using the IBM Security zSecure Suite** Axel Buecker,Michael Cairns,Monique Conway,Mark S. Hahn,Deborah McLemore,Jamie Pease,Lili Xie,IBM Redbooks,2011-08-18 Every organization has a core set of mission critical data that must be protected Security lapses and failures are not simply disruptions they can be catastrophic events and the consequences can be felt across the entire organization As a result security administrators face serious challenges in protecting the company s sensitive data IT staff are challenged to provide detailed audit and controls documentation at a time when they are already facing increasing demands on their time due to events such as mergers reorganizations and other changes Many organizations do not have enough experienced mainframe security administrators to meet these objectives and expanding employee skillsets with low level mainframe security technologies can be time consuming The IBM Security zSecure suite consists of multiple components designed to help you administer your mainframe security server monitor for threats audit usage and configurations and enforce policy compliance Administration provisioning and management components can significantly reduce administration contributing to improved productivity faster response time and reduced training time needed for new administrators This IBM Redbooks publication is a valuable resource for security officers administrators and architects who wish to better understand their mainframe security solutions *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

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