

IBM z/VSE



# Release Guide

*Version 4 Release 2 Modification Level 2*



IBM z/VSE



# Release Guide

*Version 4 Release 2 Modification Level 2*

**Note!**

Before using this information and the product it supports, be sure to read the general information under "Notices" on page v.

This edition applies to Version 4 Release 2 Modification Level 2 of IBM z/Virtual Storage Extended (z/VSE), Program Number 5609-ZV4, and to all subsequent releases and modifications until otherwise indicated in new editions.

This edition replaces SC33-8300-03.

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## Accessibility

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use software products successfully. The major accessibility features in z/VSE enable users to:

- Use assistive technologies such as screen readers and screen magnifier software
- Operate specific or equivalent features using only the keyboard
- Customize display attributes such as color, contrast, and font size

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## Using Assistive Technologies

Assistive technology products, such as screen readers, function with the user interfaces found in z/VSE. Consult the assistive technology documentation for specific information when using such products to access z/VSE interfaces.

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## z/VSE Information

z/VSE information is accessible using screen readers with the BookServer/Library Server versions of z/VSE books in the Internet library at:

<http://www.ibm.com/systems/z/os/zos/bkserv/vse.html>

One exception is command syntax that is published in railroad track format. If required, screen-readable copies of z/VSE books with that syntax information are separately available in HTML zipped file form upon request to [s390id@de.ibm.com](mailto:s390id@de.ibm.com).



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## About This Book

This manual provides details of the enhancements and changes implemented with IBM® z/VSE Version 4 Release 2 Modification Level 2 (z/VSE 4.2.2).

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## Who Should Use This Book

This manual is intended for those z/VSE users who need to be aware of important information provided with z/VSE Version 4 Release 2 Modification Level 2.

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## How to Use This Book

The book contains one chapter:

- “What Is New With z/VSE 4.2.2?,” on page 1

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## Where to Find More Information

Whenever appropriate, the book refers to other z/VSE manuals that provide further details on a specific topic.

The z/VSE home page provides additional z/VSE information:

### **z/VSE Home Page**

z/VSE has a home page on the World Wide Web, which offers up-to-date information about VSE-related products and services, new z/VSE functions, and other items of interest to VSE users.

You can find the z/VSE home page at:

<http://www.ibm.com/systems/z/os/zvse/>

You can also find VSE User Examples (in zipped format) at:

<http://www.ibm.com/systems/z/os/zvse/downloads/samples.html>



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## What Is New With z/VSE 4.2.2?

This chapter provides a brief description of the items and changes introduced with z/VSE 4.2.2.

It contains these main topics:

- “EZA TCP/IP Interface Support for IPv6”
- “Support for the Crypto Express3 Card” on page 2

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## EZA TCP/IP Interface Support for IPv6

TCP/IP-based network connectivity is a critical component in today's business environment. Furthermore, the limitations of the *Internet Protocol Version 4* (referred to simply as *IPv4*) together with increasing regulatory requirements have driven the need to support IPv6 (16-byte) TCP/IP addresses in z/VSE.

It has become apparent that IPv4 TCP/IP addresses are limited and are becoming exhausted with the rapidly expanding internet use.

The key IPv6 enhancement is the expansion of the IP address space from 32-bit addresses (4-byte) as used in IPv4 to *128-bit addresses* (16-byte) as used in IPv6. As a result, there will be a virtually unlimited number of IP addresses available for the foreseeable future. This addressing capability, together with simplified address configuration and management, makes IPv6 a critical component in the evolution of e-business (network connectivity) and the next-generation internet.

The *EZA TCP/IP programming interface* consists of the:

- EZASMI macro
- EZASOKET Call Interface.

This interface has been extended so you can use it together with IPv6.

**Note:** Check the documentation that accompanies the TCP/IP product you are using to see if this TCP/IP product includes and supports EZA IPv6 extensions.

The EZA programming interface now provides these EZA function calls:

- FREEADDRINFO
- GETADDRINFO
- GETNAMEINFO
- NTOP
- PTON

In addition to the above EZA functions:

- Certain parameters for *existing* EZA functions have been extended so they can be used with IPv6.
- The utility program EZACIC09 has been provided for your use. This utility program is helpful for COBOL programmers when processing information that has been returned from a GETADDRINFO function call.

For details of these enhancements, refer to the *TCP/IP for VSE/ESA IBM Program Setup and Supplementary Information*, SC33-6601.

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## Support for the Crypto Express3 Card

z/VSE 4.2.2 supports the Crypto Express3 card (a secure coprocessor) in both coprocessor and accelerator modes. The Crypto Express3 card is available with the IBM z10 BC and z10 EC processors. This Crypto Express3 generation of cryptographic cards will provide faster SSL acceleration.

The Crypto Express3 card is recognized during the startup of the Security Server partition (default FB) in the same way as other supported cards.

To use z/VSE's support for the Crypto Express3 card, you must install PTF UD53485 supplied with APAR DY47031.

**Note:** z/VSE uses the Crypto Express3 card with the *same functionality* as Crypto Express2. New functions and key lengths are *not* exploited.

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IBM z/VSE  
Release Guide  
Version 4 Release 2 Modification Level 2

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