CA EPIC™ for z/VSE

Release Notes

r5.2

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CA Product References

This document references the following CA products:

- CA EPIC™ for z/VSE
- CA CIS for z/VSE
- CA SORT® for VSE

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Contents

Chapter 1: Introducing CA EPIC for z/VSE 7

The Features 8

Chapter 2: Enhancements to Existing Features 9

Support for IBM 359x Series Tape Drives 9
Improved ACL Support 9
Support for Hardware Tape Encryption 10
Support for High-Capacity DASD 10
Support for IBM VTS 'FASTREADYMOUNT' Feature 10
Remove AUTOATTACH requirement for VGS interface 10
Support AUTOATTACH without CP modifications 11
AUTOATTACH Support of 4 Digit Device Addresses 11
Improved Tape Reblocking 11
Tape Initialization Improvements 11
TSIDMNT RETAIN EXD=CDT+NNN Parameter 11
Support SCRATCH from TSIO0401 12

Chapter 3: Upgrade Considerations 13

Convert a CA EPIC for z/VSE 5.1 DSN Catalog (TSIDCLN) 13
File Sharing Considerations 13
Additional SDL Entries Required 14
Catalog Sharing and High-Capacity DASD 14
Changes to Install Procs 14
MSHP Component Code Change 14
IBM ACL Changes 15

Chapter 4: Discontinued Features 17

VSAM Support Stabilized 17

Chapter 1: Introducing CA EPIC for z/VSE

CA EPIC for z/VSE (CA EPIC for z/VSE) is an automated tape and disk management system that improves VSE data center performance. By automating resource allocation, CA EPIC for z/VSE improves tape and DASD usage without additional overhead. CA EPIC for z/VSE exploits the features of new operating system releases as they become available and provides state-of-the-art storage management features and functions such as its online catalog management facility.

The Features

CA EPIC for z/VSE contains the following major features:

DSN Catalog Online Management System

The online facility offers user-customizable displays so you can define screens to suit your needs. It also offers a comprehensive help system at both the function and field level, giving you the flexibility, functionality and ease-of-use that you need. Further, CA EPIC for z/VSE offers a single batch job that lets you create a data set, automatically catalog it and modify it to meet your requirements.

VM Tape Control

CA EPIC for z/VSE helps you control tape drives under VM without manually attaching and detaching them when you use more than one virtual machine. You can control ASCII and unlabeled tapes the same way you control tapes with standard labels. VM support is provided that includes automatic ATTACH/DETACH of tape drives and submission of CP commands through JCL.

Security

CA EPIC for z/VSE manages, secures, and reports on the entire storage infrastructure. Its auditing features include data set status and usage reports, basic job accounting, activity logging, and tape exception reports.

Process Automation

Through its many automation features, CA EPIC for z/VSE helps you control the allocation, use, and release of data set resources with accuracy and efficiency. You can implement conditional execution based on date, time, job completion, and condition codes.

Tape Drive and DASD Optimization

Tape functions are designed to improve response at the operator console while increasing tape drive usage. Disk facilities improve DASD space and channel usage.

Device Availability

CA EPIC for z/VSE controls the allocation of tape drives and DASD so they are not assigned to a job until needed, leaving drives free for other partitions and CPUs.

Chapter 2: Enhancements to Existing Features

This chapter documents improvements made to existing features of CA EPIC for z/VSE.

Improved features include the following:

- Support for IBM 359x Series Tape Drives
- Improved ACL Support
- Support for Hardware Tape Encryption
- Support for High-Capacity DASD
- Support for IBM VTS 'FASTREADYMOUNT' Feature
- Remove AUTOATTACH requirement for VGS interface
- Support AUTOATTACH without CP modifications
- AUTOATTACH Support for 4 Digit Device Addresses
- Improved Tape Reblocking
- Tape Initialization Improvements
- TSIDMNT RETAIN EXD=CDT+NNN Parameter
- Support SCRATCH from TSIO0401

Support for IBM 359x Series Tape Drives

Support for tape drives 3590, 3590-E, 3590-H, 3592, 3592-E05 and 3592-E06 have been added.

Improved ACL Support

Multiple ACLs from multiple vendors are now supported.

Support for Hardware Tape Encryption

Datasets written to 3592 tape drives can now use the hardware encryption feature for those devices. KEKL (Key Encryption Key Label) information can be stored in the EPIC catalog in a named package called a KMODEL. The KMODEL name is used to relate EPIC datasets to the desired encryption keys. In addition, new tape MODES are available to specify that encryption is desired for a dataset. When an encrypted tape is created, EPIC AVR routines will select an encryption capable tape drive, retrieve the KEKL information from the catalog, and pass it to VSE. For input, EPIC will AVR an encryption capable tape drive and the key exchange will be handled by VSE. Currently, the IBM drives 3592-E05 (TS1120) and 3592-E06 (TS1130) support hardware tape encryption.

Support for High-Capacity DASD

Support for High-Capacity CKD DASD devices with greater than 4095 cylinders, such as IBM models 3390-9, 3390-27, and 3390-54, is now available.

Note: If you share these disks with a system running an earlier release of CA EPIC for z/VSE, compatibility PTFs are required for the older systems. For more information, contact CA Technical Support.

Support for IBM VTS ‘FASTREADYMOUNT’ Feature

The IBM Virtual Tape Server ‘FASTREADYMOUNT’ feature is supported in two ways:

1. If a tape mounted by an ACL is rejected by EPIC because of a problem with the label, message EP013 will be written to the console to indicate a problem with the volume label. The tape will be unloaded and a new MOUNT will be issued to the ACL. Previously no error message was displayed
2. To allow EPIC to use the VTS FASTREADYMOUNT tapes, specify EPIC startup option EPS104=Y. EPS104=Y will relax EPIC's label screening for the following tape volumes:
   a. Mounted by an ACL for output
   b. In SCRATCH status in the EPIC catalog

   If EPS104=N (the default), the 'empty' tapes will be rejected by EPIC.

Remove AUTOATTACH requirement for VGS interface

When set to YES, option EPS100 removes EPIC's requirement for the AUTOATTACH feature to support an IBM ACL through the VSE Guest Server (VGS) interface. This option does not affect the ACL's accessed through LCDD or native VSE.

Support AUTOATTACH without CP modifications

Allow the use of EPIC's AUTOATTACH feature without the requirement for changes to the VM/CP nucleus. Two startup options, EPS102 and EPS103, have been added to facilitate the following:

EPS102='Y' directs CA EPIC for z/VSE to use standard CP 'ATTACH' and 'DETACH' commands rather than EPIC's 'VATTACH' and 'VDETACH'.

EPS103='Y' directs CA EPIC for z/VSE to use the 'SILENT' parameter when the CP ATTACH and DETACH commands are issued, to suppress the responses from the CP command. EPS103 does not have any effect unless EPS102 is set to 'Y'. Z/VM 4.3 or higher is required for this option.

AUTOATTACH Support of 4 Digit Device Addresses

With this release, the AUTOATTACH restriction that a virtual CUU address must match the real address has been removed. Three or four digit real device addresses can be specified on the AFF= parameter on the UCB command of the TSIDSMNT utility. CP 'ATTACH' commands built by AUTOATTACH uses the AFF= specification for the real device address. Option EPS102=YES is a requirement for this enhancement.

Improved Tape Reblocking

Where VSE support is available (VSE/ESA 2.6 and up), the maximum allowed blocksize for EPIC tape reblocking has been raised from 32K to 64K. BLKSZ=OPT will result in 32K blocks rather than 16K, and BLKSZ=MAX will result in 64K blocks rather than 32K.

Tape Initialization Improvements

The TSIDINIT utility now has an ACL interface to ease the task of initializing ACL resident carts (IBM only). Specifying 'ACL=(address)' rather than 'CUU=(address) results in the automatic mounting of the cart on the designated drive for initialization.

TSIDMNT RETAIN EXD=CDT+NNN Parameter

A new TSIDMNT RETAIN parameter, EXD=CDT+nnn, allows the expiration of the dataset to be calculated as a number of days after the creation date.

Support SCRATCH from TSIO0401

Online screen TSIO0401 has been enhanced to facilitate scratching of tapes when only the volume serial number is known. Entering 'S' scratches the corresponding prime catalog version. If active multifile versions exist on the tape, the scratch command is rejected.

Chapter 3: Upgrade Considerations

The following items require special attention when upgrading from a previous release:

Convert a CA EPIC for z/VSE 5.1 DSN Catalog (TSIDCLN)

You must change the catalog to accommodate the 64k tape reblocking enhancement. If you are upgrading from CA EPIC for VSE Version 5.1, do the following:

- Activate the new version of CA EPIC for z/VSE
- Back up the DSN Catalog with the TSIDUTL 'BACKUP' command.
- Run the TSIDCLN utility to initialize new fields in your version 5.1 DSN Catalog. TSIDCLN can be rerun as needed.

Example

```
// JOB TSIDCLN
// EXEC TSIDCLN
 UPGRADE 52
/*
/&
```

If you intend to share the DSN catalog with systems running EPIC for z/VSE 5.1, you must run TSIDCLN at least once a day to keep the catalog records updated. We suggest including it in your daily EPIC maintenance, after the backup of the catalog and recorder files. The utility only updates records introduced by a 5.1 system since the last 'UPDATE 52' run. When the 5.2 migration is accomplished on all systems, the TSIDCLN step can be removed.

File Sharing Considerations

The DSN catalog, Recorder file, and ERD file can be shared between releases 5.1 and 5.2, assuming that the catalog has been updated with TSIDCLN (above).

Important! In a multi-release shared environment, you must perform daily backup and scratch maintenance from a r5.2 system.

Additional SDL Entries Required

In release 5.2, 47 available entries are required in the VSE 'System Directory List' (SDL). This is 25 entries more than that were used in release 5.1.

Note: For more information, see 'Determining Space Requirements' in the *Installation and System Guide*.

Catalog Sharing and High-Capacity DASD

Support for High-Capacity DASD devices, such as IBM models 3390-9, 3390-27, and 3390-54, that have 4096 cyclinders or more, is provided with this release. Support for these devices is also provided for 5.1 with CA EPIC for z/VSE PTF QO87699. This PTF must be applied to your 5.1 system if you intend to share the catalog between releases.

Changes to Install Procs

- The member IESMSGS.PROC has been renamed EPIMSGLD.PROC to avoid confusion with the IBM proc of the same name.
- The DCOMOBJS.PROC, used in 5.1 to load the online manager files, has been removed in 5.2. The GSS 5.0 utility GSSUTIL is now used for this function. See 'Creating the Online Manager Executable Files' in Chapter 2 of the CA EPIC Install and System Guide for more information.

MSHP Component Code Change

The IBM Maintain System History Program (MSHP) component code prefix for CA EPIC for z/VSE has changed from 7965 in release 5.1, to the 0202 in 5.2. A separate MSHP file, one that does not contain ant 5.1 entries, must be used for applying r5.2 maintenance.

Note: For more information, see 'MSHP Considerations' in the *Installation and System Guide*.

IBM ACL Changes

If an IBM ACL is supported through VM with the VSE Guest Server (VGS) interface, CA EPIC now requires that the 'LIBCONFG LIST' configuration member be defined for the VGS server. While the VGS documentation states that the file is not required in a single library environment, the VSE 'LBSERV' interface cannot react properly to the library name without it. For more information on 'LIBCONFG LIST', see the 'Appendix D: VSE Guest Support' in the IBM publication 'DFSMS/VM Removable Media Support'.

Chapter 4: Discontinued Features

This chapter documents the CA EPIC for z/VSE features that have been discontinued in this release.

VSAM Support Stabilized

CA EPIC control of VSAM files, as specified in CA EPIC startup option VSAM=Y/N, will no longer be supported on VSE releases beyond z/VSE r4.2.