

Security zSecure Manager for RACF z/VM  
Version 1.11.1

*Installation and Deployment Guide*





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**Note**

Before using this information and the product it supports, read the information in Appendix B, "Notices," on page 35.

**Edition notice**

This edition applies to version 1, release 11, modification 1 of Security zSecure Manager for RACF z/VM (product number 5655-T13) and to all subsequent releases and modifications until otherwise indicated in new editions.

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## About this publication

The *IBM Security zSecure Manager for RACF z/VM: Installation and Deployment Guide* describes the installation and configuration processes for Version 1.11.1 of the product.

The manual provides instructions for installing, configuring, and deploying the software. It describes the REXX program for starting the product and the configuration files for customizing installation options and other settings.

This publication is intended for people responsible for installing, configuring, deploying, and maintaining IBM Security zSecure Manager for RACF z/VM.

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## Access to publications and terminology

This section provides:

- A list of publications in the “IBM Security zSecure Manager for RACF z/VM library.”
- Links to “Online publications” on page ix.
- A link to the “IBM Terminology website” on page ix.

## IBM Security zSecure Manager for RACF z/VM library

The following documents are available in the IBM Security zSecure Manager for RACF z/VM library:

- *IBM Security zSecure Manager for RACF z/VM: Release Information*

For each product release, the Release Information topics provide information about new features and enhancements, incompatibility warnings, and documentation update information. You can obtain the most current version of the release information from the zSecure for z/VM Information Center at [http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/topic/com.ibm.zsecurevm.doc\\_1.11.1/releaseinfo/releaseinformation.html](http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/topic/com.ibm.zsecurevm.doc_1.11.1/releaseinfo/releaseinformation.html).

- *IBM Security zSecure Manager for RACF z/VM: Installation and Deployment Guide*, SC27-4363-00

Provides information about installing, configuring, and deploying the product.

- *IBM Security zSecure Manager for RACF z/VM: User Reference Manual*, LC27-4364-00

Describes how to use the product interface and the RACF<sup>®</sup> administration and audit functions. The manual provides reference information for the CARLa command language and the SELECT/LIST fields. It also provides troubleshooting resources and instructions for using the zSecure Collect component. This publication is available only to licensed users.

- *IBM Security zSecure: Messages Guide*, SC14-7667-01

Provides a message reference for all IBM Security zSecure components. Includes an overview of the message types associated with each product or feature. All zSecure product messages and errors are listed, sorted by message type. Each message includes an explanation and any additional support information available.

This version of the book is an update to the version provided with IBM Security zSecure version 1.13.

- *IBM Security zSecure: Documentation CD, LCD7-1387-11*  
The *Documentation CD* supplies the information centers for IBM Security zSecure Manager for RACF z/VM and IBM Security zSecure. These information centers contain both licensed and unlicensed product documentation. The format of the publications is PDF, HTML, or both. See the readme file on the CD for instructions for accessing the documentation. The *Documentation CD* is available only to licensed users.
- *Program Directory for IBM Security zSecure Manager for RACF z/VM, GI11-7865-02*  
To use the information in this publication effectively, you must have some prerequisite knowledge that you can obtain from the program directory. The *Program Directory for IBM Security zSecure Manager for RACF z/VM* is intended for the systems programmer responsible for installing, configuring, and deploying the product. It contains information about the materials and procedures associated with installing the software. The Program Directory is provided with the product tape. You can also download the latest copy from the Information center available at [http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc\\_1.11.1/welcome.html](http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc_1.11.1/welcome.html).

The following documents are available in the IBM Security zSecure library (for z/OS):

- *IBM Security zSecure Manager for RACF z/VM: Release Information*  
For each product release, the Release Information topics provide information about new features and enhancements, incompatibility warnings, and documentation update information for the IBM Security zSecure products. You can obtain the most current version of the release information from the IBM Security zSecure Information Center at [http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc\\_1.11.1/welcome.html](http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc_1.11.1/welcome.html).
- *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide, SC14-7662-00*  
Provides information about installing and configuring the following IBM Security zSecure components:
  - zSecure Manager for RACF
  - IBM Security zSecure Audit for RACF, ACF2 and Top Secret
  - IBM Security zSecure Alert for RACF and ACF2
  - IBM Security zSecure Visual for RACF
  - IBM Tivoli Compliance Insight Manager Enabler for z/OS
- *IBM Security zSecure Admin and Audit for RACF: Getting Started Guide, GI11-9162-00*  
Provides a hands-on guide introducing IBM Security zSecure Admin and IBM Security zSecure Audit product features and user instructions for performing standard tasks and procedures. This manual is intended to help new users develop both a working knowledge of the basic IBM Security zSecure Admin and Audit for RACF system functionality and the ability to explore the other product features that are available.
- *IBM Security zSecure Admin and Audit for RACF: User Reference Manual, LC14-7663-00*  
Describes the product features for IBM Security zSecure Admin and IBM Security zSecure Audit. Includes user instructions to run the features from ISPF panels, RACF administration and audit user documentation, with both general and advanced user reference material for the CARLa command language and the SELECT/LIST fields. This manual also provides troubleshooting resources



and instructions for installing the Security zSecure Collect for z/OS<sup>®</sup> component. This publication is available only to licensed users.

- *IBM Security zSecure Audit for ACF2: User Reference Manual, LC14-7664-00*  
Explains how to use IBM Security zSecure Audit for ACF2 for mainframe security and monitoring. For new users, the guide provides an overview and conceptual information about using ACF2 and accessing functionality from the ISPF panels. For advanced users, the manual provides detailed reference information including message and return code lists, troubleshooting tips, information about using Security zSecure Collect for z/OS, and details about user interface setup. This publication is available only to licensed users.
- *IBM Security zSecure Audit for ACF2: Getting Started Guide, GI11-9163-00*  
Describes the IBM Security zSecure Audit for ACF2 product features and provides user instructions for performing standard tasks and procedures such as analyzing Logon IDs, Rules, and Global System Options; and running reports. The manual also includes a list of common terms for those not familiar with ACF2 terminology.
- *IBM Security zSecure Audit for Top Secret: User Reference Manual, LC14-7665-00*  
Describes the IBM Security zSecure Audit for Top Secret product features and provides user instructions for performing standard tasks and procedures.
- *IBM Security zSecure Alert: User Reference Manual, SC14-7666-00*  
Explains how to configure, use, and troubleshoot IBM Security zSecure Alert, a real-time monitor for z/OS systems protected with the Security Server (RACF) or CA-ACF2.
- *IBM Security zSecure Visual: Client Manual, SC14-7669-00*  
Explains how to set up and use the IBM Security zSecure Visual Client to perform RACF administrative tasks from the Windows-based GUI.
- *IBM Security zSecure Command Verifier: User Guide, SC14-7670-00*  
Explains how to install and use IBM Security zSecure Command Verifier to protect RACF mainframe security by enforcing RACF policies as RACF commands are entered.
- *IBM Security zSecure CICS Toolkit: User Guide, SC14-7671-00*  
Explains how to install and use IBM Security zSecure CICS Toolkit to provide RACF administration capabilities from the CICS<sup>®</sup> environment.
- *IBM Security zSecure: Messages Guide, SC14-7667-00*  
Provides a message reference for all IBM Security zSecure components. This guide describes the message types associated with each product or feature, and lists all IBM Security zSecure product messages and errors along with their severity levels sorted by message type. This guide also provides an explanation and any additional support information for each message.
- *IBM Security zSecure: Quick Reference, SC14-7668-00*  
This booklet summarizes the commands and parameters for the following IBM Security zSecure Suite components: Admin, Audit, Alert, Collect, and Command Verifier. Obsolete commands are omitted.
- *IBM Security zSecure: Documentation CD, LCD7-1387-09*  
Supplies the IBM Security zSecure Information Center, which contains the licensed and unlicensed product documentation. The *IBM Security zSecure: Documentation CD* is available only to licensed users.
- *Program Directory Security zSecure CARLa-Driven Components*  
This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the

material and procedures associated with the installation of IBM Security zSecure CARLa-Driven Components: Admin, Audit, Visual, Alert, and the IBM Tivoli Compliance Insight Manager Enabler for z/OS. Program directories are provided with the product tapes. You can also download the latest copy from the IBM Security zSecure Information center available at [http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc\\_1.11.1/welcome.html](http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc_1.11.1/welcome.html).

- *Program Directory for Security zSecure CICS Toolkit*

This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of IBM Security zSecure CICS Toolkit. Program directories are provided with the product tapes. You can also download the latest copy from the IBM Security zSecure Information center available at [http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc\\_1.11.1/welcome.html](http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc_1.11.1/welcome.html).

- *Program Directory for Security zSecure Command Verifier*

This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of IBM Security zSecure Command Verifier. Program directories are provided with the product tapes. You can also download the latest copy from the IBM Security zSecure Information center available at [http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc\\_1.11.1/welcome.html](http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc_1.11.1/welcome.html).

- *Program Directory for Security zSecure Admin RACF Offline*

This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of the IBM Security zSecure Admin RACF-Offline component of IBM Security zSecure Admin. Program directories are provided with the product tapes. You can also download the latest copy from the IBM Security zSecure Information center available at [http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc\\_1.11.1/welcome.html](http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc_1.11.1/welcome.html).

## Related Publications

If you are using IBM Security zSecure products in a RACF environment, you can find RACF user and reference information in several IBM® manuals. For information about the RACF commands, and the implications of the various keywords, see the *RACF Command Language Reference* and the *RACF Security Administrator's Guide*. For information about writing other RACF exits, see the *RACF System Programmer's Guide*. You can find information about auditing RACF in the *RACF Auditor's Guide*. You can access this documentation at <http://www.vm.ibm.com/library/>.

*Table 1. Further information about RACF administration, auditing, programming, and commands*

| Manual Title  | Order number |
|---|--------------|
| <i>z/VM® RACF Security Server Command Language Reference</i>    | SC24-6213    |
| <i>z/VM RACF Security Server Security Administrator's Guide</i> | SC24-6218    |
| <i>z/VM RACF Security Server Auditor's Guide</i>                | SC24-6212    |
| <i>z/VM RACF Security Server System Programmer's Guide</i>      | SC24-6219    |

## Licensed publications

To order printed copies of individual licensed publications or a copy of the *IBM Security zSecure: Documentation CD*, send an email requesting the publication to [tivzos@us.ibm.com](mailto:tivzos@us.ibm.com). Include your IBM customer number, form number for each publication, and contact information.

## Online publications

IBM posts product publications when the product is released and when the publications are updated at the following locations:

### IBM Security zSecure Manager for RACF z/VM Information Center

The [http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc\\_1.11.1/welcome.html](http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc_1.11.1/welcome.html) site displays the information center welcome page for this product.

### IBM Security zSecure Information Center

The [http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecure.doc\\_1.13/welcome.html](http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecure.doc_1.13/welcome.html) site displays the information center welcome page for this product.

### IBM Security Information Center

<http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp> site displays an alphabetical list of and general information about all IBM Security product documentation.

### IBM Publications Center

The <http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss> site offers customized search functions to help you find all the IBM publications you need.

## IBM Terminology website

The IBM Terminology website consolidates terminology for product libraries in one convenient location. You can access the Terminology website at <http://www.ibm.com/software/globalization/terminology>

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## Accessibility

Accessibility features help users with a physical disability, such as restricted mobility or limited vision, to use software products successfully. For keyboard access in the IBM Security zSecure Manager for RACF z/VM products, standard shortcut and accelerator keys are used by the product, where applicable, and are documented by the operating system.

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## Technical training

For technical information, see the following IBM Education website at <http://www.ibm.com/software/tivoli/education>.

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## Support Information

IBM Support provides assistance with code-related problems and routine, short duration installation or usage questions. You can directly access the IBM Software Support site at <http://www.ibm.com/software/support/probsub.html>.

**Note:** The **Community and Support** tab on the product information center can provide additional support resources.



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# Chapter 1. Installation roadmap

Table 2 provides an overview of the steps to install, configure, and deploy a new installation of IBM Security zSecure Manager for RACF z/VM.

Table 2. Installation roadmap

| Task description  | See...  |
|---|---|
| Learn about key concepts and resources related to installing, configuring, and deploying the product.<br><ol style="list-style-type: none"><li>1. Review the concepts of single installation and distribution-oriented installation.</li><li>2. Learn about CKV, the default REXX program that starts the product and the default configuration file (C2R\$PARV CARLA) that specifies initial configuration settings.</li></ol>   | Chapter 2, "Installation overview," on page 3                     |
| Prepare for installation:<br><ol style="list-style-type: none"><li>1. Verify the release.</li><li>2. Evaluate space requirements.</li><li>3. Plan for distribution-oriented installation.</li></ol>   | Chapter 3, "Preparing for installation," on page 5                |
| Install the software using the <i>Program Directory for IBM Security zSecure Manager for RACF z/VM</i> .  | Information center for IBM Security zSecure Manager for RACF z/VM |
| Configure the product:<br><ol style="list-style-type: none"><li>1. Set up the configuration file.</li><li>2. Update the Start program with the software location and configuration file name.</li><li>3. Optional. Customize installation-defined settings.</li><li>4. Optional. Use the Setup Default option from the product menu to customize language settings, display text, menu options, and line commands for user groups.</li></ol> <p><b>Note:</b> Depending on the installation, you might need multiple copies of the configuration file and the Start program.</p> | Chapter 4, "Configuring zSecure Manager for RACF z/VM," on page 7 |
| Make the software available in CMS:<br><ol style="list-style-type: none"><li>1. Make sure that the REXX program that starts the product is available in a location that CMS users can access.</li><li>2. Establish a start procedure for CMS users.</li></ol>   | Chapter 5, "Making the software available in CMS," on page 21     |
| Set up for production:<br><ol style="list-style-type: none"><li>1. Review the capacity planning information to help you determine the system resources required.</li><li>2. Specify the default input set.</li><li>3. Set up the daily collection job.</li><li>4. Refresh the CKFREEZE file.</li></ol>  | Chapter 6, "Setting up for production," on page 23                |
| Verify the installation:<br><ol style="list-style-type: none"><li>1. Check the base UI functions.</li><li>2. Check the zSecure Collect function.</li><li>3. Check installation-defined option settings.</li></ol>   | Chapter 7, "Verifying the installation," on page 29               |



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## Chapter 2. Installation overview

The installation, configuration, and deployment process supports both single and distribution-oriented installation.

- In a single installation, you install zSecure Manager for RACF z/VM separately on each z/VM image.
- In a distribution-oriented installation, you install the product on one z/VM image, and then run it on multiple images using different configuration files. You can also run multiple configurations in a single z/VM image. For example, you can provide central administrators with access to a full-function configuration. You can provide site administrators with access to a streamlined configuration that includes only the Quick Administration Menu (option **RA.Q**).

**Note:** If you need to perform RACF administration and auditing tasks on both z/VM and z/OS systems, you must install zSecure separately for each operating system. For information about installing the z/OS version of the product, see *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide*.

Two key components of the software configure and deploy the product in your environment: the default Start program and one or more configuration files.

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### The default Start program: CKV

IBM Security zSecure Manager for RACF z/VM provides the CKV REXX program to start the product on a z/VM system. This program links and accesses the minidisk where the software is installed. It also provides a pointer to the default configuration file for running the product. The program is provided on the production build disk. This file includes the following code.

```
configurationFile      = 'C2R$PARV CKVPARAM *'  
codeMiniDisk          = '5655T13C 200'  
codeVirtualAddress    = 'ACF'  
codeFileMode          = 'E'
```

You can set up multiple Start programs for different systems and User groups.

---

### The configuration file

A configuration file specifies the configuration options for a specific instance of the software. Depending on installation requirements, you can create multiple versions of the configuration file for different systems and User groups. You can select the configuration file that establishes the initial product settings in the Start program, or as a passed parameter on the program start command.

Store the configuration files separately from the installed software so that the modifications are not overwritten during product upgrades.

C2R\$PARV CARLA is a sample configuration file on the production build disk, which might be called 5655T13C 200 disk. This file includes the following code:

```
workFileMode          = 'A'                /* Mode for new (scratch) files */  
customizationFileMode = 'B'                /* Filemode with C2RPROF files */  
description            = 'Default files'    /* Description for input set */  
unload                = ''                 /* Unloaded RACF database */
```

```

ckfreeze          =''          /* fn ft fm of CKFREEZE      */
smf               =''          /* fn ft fm of SMF          */
init              = 'NO'       /* initialize every time     */
userLibFileMode   =''          /* file mode user ISPF libraries */
earlyWrn         =''          /* ids to receive conf.error msgs */
racfDBCMS        = 'DBCOPY RACF A' /* RACF db in CMS minidisk format */
racfDbDataset     = 'RACF.DATASET' /* OS dsname of RACF database */
racfMiniDisk     = 'RACFVM 200' /* Minidisk with RACF database */
racfVirtualAddress = freeaddr  /* Virt addr to access RACF db */
racfFileMode     = freemode    /* Mode to access RACF db     */
mode              = 'ISPF'     /* Mode to start zSecure in   */

```

The examples in this publication use the convention that the C2R\$PARV CARLA file was copied to another location and renamed to C2R\$PARV CKVPARM.

Typically, configuration files are available on minidisks that are separate from the software. zSecure Manager for RACF z/VM never updates the files containing the actual software. Consequently, the minidisks with software are linked in read-only mode.



---

## Chapter 3. Preparing for installation

Before you install the product, see the following sections:

- “Verifying the release”
- “Evaluating space requirements”
- “Planning for a distribution-oriented installation”

---

### Verifying the release

Verify that the product and release you are about to install is the current and supported release. Confirm that it is supported on the platform where you intend to use it. For information about the IBM Software Support Lifecycle, see [http://www.ibm.com/software/support/lifecycle/index\\_a\\_z.html](http://www.ibm.com/software/support/lifecycle/index_a_z.html).

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### Evaluating space requirements

For programming and space requirements, see the *Program Directory for IBM Security zSecure Manager for RACF z/VM*. This document is available with the product and online in the zSecure for z/VM information center. See [http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc\\_1.11.1/welcome.html](http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.zsecurevm.doc_1.11.1/welcome.html).

---

### Planning for a distribution-oriented installation

If you are performing a distribution-oriented installation, review the following considerations:

- Consider the number of separate configurations you want to set up for users. For example, do you want to provide one configuration for Administrators and another for Operators?  
Each configuration requires a separate configuration file that specifies the required settings. These configuration files must be accessible to the program that starts the product.
- For each z/VM image to which you want to deploy the software, make sure that you have the information required to link and access the minidisk.  
Each z/VM image targeted for deployment must have a separate start program that points to the correct minidisk location and configuration file. You can override the configuration file specified in the start program by passing the configuration file name as a parameter on the start program.
- Decide where to store the customized start program and configuration files for each instance.

For information about customizing the configuration files and the REXX program that starts the product, see Chapter 4, “Configuring zSecure Manager for RACF z/VM,” on page 7.



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## Chapter 4. Configuring zSecure Manager for RACF z/VM

The following topics describe how to set up, configure, and customize the product.

- “Setting up the configuration file”
- “Selecting a configuration file”
- “Customizing installation option settings” on page 8
- “Customizing options for user groups” on page 10

---

### Setting up the configuration file

After installing the software, the default configuration file C2R\$PARV CARLA sample is available on the production build disk. You must copy this file to another location and use it to create the configuration files required in your environment.

To set up the configuration file, do the following steps:

1. Copy C2R\$PARV CARLA to the local tools minidisk or another location that is included in the Search path of user profiles.
2. Rename the file to C2R\$PARV CKVPARM or another name that you prefer.  
To use this default configuration file, skip to “Selecting a configuration file.”
3. To customize the configuration, edit the C2R\$PARV CKVPARM file to modify the parameters.
4. Save the modified file with a different name on a minidisk that is accessed and linked before starting the product.
5. Repeat steps 1-4 for each required configuration file.

Use the configuration files you created to establish the initial settings when the product starts. For more information, see the following topics:

- Appendix A, “Configuration parameters,” on page 31
- “Selecting a configuration file”

---

### Selecting a configuration file

You can select the configuration file for the product using the start program. You can also select the file at run time by specifying the file name in the CONFIG parameter on the product start command.

**Note:** These examples use CKV, the default REXX program that starts the product. Because the software supports multiple configurations, each installation has a unique start program name. For example, you might have one start program for administrators called CKVADM and another for help desk personnel called CKVHLP. The start command name matches the program name.

#### Specifying the configuration file name in the start command

Run the following command.

```
CKV (CONFIG = configfilename configfiletype configfilemode)
```

where

*configfilename* is the file name, *configfiletype* is the file type, and *configfilemode* is the file mode. Use an asterisk (\*) for the *filemode* value to specify a flexible location for the minidisk.

### Using the default configuration file specified in the start program

Run the following command.

```
CKV
```

If you run the start command without any parameters, the product starts using the configuration file specified in the `configurationFile` parameter in the CKV start program. For information about customizing this value, see Chapter 5, “Making the software available in CMS,” on page 21.

For more information, see the following topics:

“Setting up the configuration file” on page 7

Chapter 5, “Making the software available in CMS,” on page 21

---

## Customizing installation option settings

Table 3 describes the default product installation options specified by the CKRSITE parameters in the CKRCARLA load library. You can customize the default values for these options by building a separate CKRSITE load library and changing the values. Customizing these parameters is optional. The product is fully operational without changing these settings. For information, see “Building the CKRSITE load library” on page 9.

*Table 3. Site module options*

| Parameter   | Valid values                 | Description   | Default  |
|-------------|------------------------------|---|----------|
| AUTH        | SINGLE<br>DOUBLE<br>TRIPLE   | This parameter is not supported by zSecure Manager for RACF z/VM.   | SINGLE   |
| CUSTSPEC    | Up to 100 characters of text | Site or customer-specific identifier. This parameter is included in the SYSPRINT output for zSecure Manager for RACF z/VM.    |          |
| CLASS       | SAF class name               | Resource class for the zSecure security checks. Under VM/CMS, the only resource checked is CKR.READALL.                       | XFACILIT |
| KEEPCOMMAND | Numeric                      | This parameter is not supported by zSecure Manager for RACF z/VM.   | 7        |
| KEEPAUDIT   | Numeric                      | This parameter is not supported by zSecure Manager for RACF z/VM.   | 30       |
| RESTRICT    | Y<br>N                       | Restricted mode. Alternatively, use the general resource CKR.READALL provided by the CLASS parameter instead of this setting. | N        |

**Restricted mode** You can use zSecure Manager for RACF z/VM in two distinct modes: *unrestricted* and *restricted*.

- In *unrestricted* mode, all data in the RACF security database is included in reports that can be viewed from the ISPF panel or from printed reports.
- In *restricted* mode, only the data within the scope of the user ID is available. For example, in *restricted* mode a Help Desk operator cannot create the same reports or view the same data that a Central Administrator can.

Under VM/CMS, *restricted* mode does not provide full protection of information based on user scope. If a user has READ access to the disk where the RACF database is stored, the user can read the database with zSecure or any other program. In these other programs, information might not be restricted.

Full restricted mode is supported under z/OS using the Program Access to Data Sets (PADS) feature. If your RACF database is shared between z/VM and z/OS, you can use full-restricted mode by accessing the RACF database only from the z/OS side and only in PADS mode. To do so, create the CKFREEZE files on the z/VM system. Then, transfer these files to the z/OS system and use them as the data source for RACF administration and auditing.

**Conditions for restricted mode** Restricted mode operation is determined by the access that the live system grants the user for the CKR.READALL resource in the XFACILIT class.

- NO access enforces restricted mode.
- READ access grants unrestricted mode

**Note:** The XFACILIT class is the default class specified for zSecure. If you customized the CKRSITE module, the CLASS might be different.

If zSecure cannot determine the access level for the CKR.READALL class because the resource is not covered by a profile, zSecure determines the restricted mode setting by the following process:

- If the installation options use the default setting CLASS=XFACILIT, restricted mode is in effect.
- Evaluate the return code (RC) for the CLASS setting in the RACF Class Descriptor Table (CDT). The mode is determined based on the following RC values:
  - RC=0: no restrictions
  - RC=4: RACF does not know. Check the RESTRICTED installation option in the CKRSITE module.
  - RC=8: restricted access
- If the CKRSITE module specifies RESTRICTED=YES, restricted mode is in effect.

For more information about restricted mode, see the *IBM Security zSecure CARLa-Driven Components: Installation and Deployment Guide*.

## Building the CKRSITE load library

This optional procedure describes the steps to build a CKRSITE load library and change the default installation options. Perform this procedure if you want to change these options. Because this process uses assembler source code in the product, you need some knowledge of assembly language.

### Notes:

1. Using the CKRSITE module is optional. The product is fully operational without it.
2. If you use the CKRSITE module and customize it, you must rebuild it if you apply any service to the CKRSITE ASSEMBLE or the associated CKRSITED macro.

To build the CKRSITE load library, do the following steps:

1. Review Table 3 on page 8 to note which CKRSITE parameters require custom values.
2. Run the following commands to copy the supplied assembler source part from the production build disk where the product is installed.

```
LINK 5655T13C 200 ACF RR
ACCESS ACF E
COPYFILE CKRSITE ASSEMBLE E CKRSITE ASSEMBLE A
```

The preceding example copies the code from the default minidisk specified in the Program Directory, 5655T13C 200. You can also copy the code from the minidisk specified in the CodeMiniDisk parameter in the REXX program that starts the product (CKV).

3. In the CKRSITE ASSEMBLE file on the A disk, change the CKRSITE parameter values as noted in Step 1 on page 9.
4. Run the REXX program CKVESITE to assemble, link edit, and build the CKRSITE load library on the A disk.
5. If any assembler errors occur, correct them and rerun the CKVESITE program as many times as necessary to resolve the errors.
6. Make sure that the CKRSITE load library is available when the product is started.
  - If the customizationFileMode parameter in the product configuration file specifies the value for a specific minidisk, copy the CKRSITE load library to the same disk.
  - If this variable is not defined, copy the CKRSITE load library to a minidisk available to all users of this product.
7. Check the CKRSITE load library during the installation verification process.

For additional information, see the following topics:

Appendix A, “Configuration parameters,” on page 31

“Checking installation-defined option settings” on page 30

---

## Customizing options for user groups

Use the Setup Default (SE.D) option to customize program operation for different systems and different user groups.

Any changes you specify during the Setup process apply to the configuration files on the minidisk indicated in the customizationFileMode parameter in the configuration file. If you use a single customizationFileMode minidisk, the Setup Default option establishes system-wide option settings. If you do not change any of the default options, zSecure uses the default settings for the product.

You can configure the product so that the updated settings apply to all users or apply only when a new user logs in.

To minimize service availability issues during the customization process, do the following steps:

1. Specify the Setup Default options for a new minidisk.
2. Test the settings.
3. After confirming that the options are correct, swap the minidisks or copy the configuration file to the production system.

For more information, see the following topics:

- “Changing the default installation options (SE.D)” on page 11
- “Customizing language settings and display text (SE.D.N)” on page 11
- “Customizing Menu items” on page 12
- “Customizing action line commands” on page 15
- “Adding and selecting CARLa command libraries (SE.D.8)” on page 18

## Changing the default installation options (SE.D)

To change the default installation options, do the following steps:

1. Start ISPF with the selected customizationFileMode minidisk:  
Run the product start command with a configuration file that specifies customizationFileMode = 'x', or override the configuration when you start CKV. For more information, see “Selecting a configuration file” on page 7.
2. From the Main menu, type SE.D on the command line.
3. From the Setup panel, use the available options to change the Setup options.  
See “Customizing language settings and display text (SE.D.N)” for information, or press F1 for help.
4. Press F3 to exit the SETUP panel.
5. At the prompt, type one of the following options to process the changes:  
N applies the updated settings only to new users.  
Y applies the updated settings to all users when they log in.  
D discards all changes made. Changes to input file options, National Language settings, and input file selections cannot be discarded.

**Note:** To apply the default settings each time a user logs on, specify INIT=YES in the configuration file.

## Customizing language settings and display text (SE.D.N)

Use the Setup Default - NLS option (SE.D.N) to set language options for the product. You can also customize the display text and other settings for menu items and line commands.

Figure 1 shows the Setup - NLS panel for customizing the options.

```
zSecure - Setup - NLS (- System defaults)
Command ==>
Change language to      Action on language items
1 1. English            1 1. No action (use specified language)
  2. Dutch              2. Reset all items to company default
  3. French             3. Reset all items to Security zSecure default
  4. German             4. Customize Menu items
  5. Italian            5. Customize action line commands
  6. Portuguese
  7. Spanish
  8. Other
  0. Security zSecure
Language used: Default English
```

Figure 1. Setup - NLS panel

From the Setup - NLS panel, you can perform the following tasks:

- Select the language for the product interface.
- Reset the language and menu configuration to installation-defined options, or to the Security zSecure product defaults.
- Customize display text, descriptions, and processing behavior for menu items and line commands.

**Note:** When working with IBM Software Support, set the language to the default setting, Security zSecure. You can switch the language back to the one specified for your installation after resolving the support issue.

The following list describes the fields available on the Setup - NLS panel:

**Change language to** Specifies the language used for the product Menu panels and Action commands in the product interface. (When you are working with IBM Software Support, set the language to the default setting, Security zSecure.)

**Action on language items** specifies the operation to perform when you press Enter. Table 4 describes the available actions.

*Table 4. Actions available for selecting and customizing language and display options*

| Action  | Description  |
|---|--|
| <b>1. No action (use specified language)</b>  | Sets the language to the specified value and exits the Setup - NLS panel.  |
| <b>2. Reset all items to company defaults</b> | Resets the settings to the system default values specified for your installation. If you have not specified any site-specific settings, the zSecure default configuration is used. |
| <b>2. Reset all items to zSecure defaults</b> | Resets all language and display options to the zSecure default values and exits the Setup - NLS panel.   |
| <b>3. Customize Menu items</b>                | Opens a panel for customizing the display text and processing behavior for menu items. For more information, see "Customizing Menu items."   |
| <b>4. Customize action line commands</b>      | Opens a panel for customizing display text and processing behavior for line commands. For more information, "Customizing action line commands" on page 15.                         |

## Customizing Menu items

You can customize Menu items in the following ways:

- Change the option characters for selecting an item.
- Change the short or long description.
- Add or delete an item.
- Advanced users can customize the command to run or the panel to open when a Menu item is selected.

Perform the following steps to customize a Menu item.

1. From the Setup menu, type **SE.D** to display the Setup Defaults panel.
2. Type **N** to display the Setup - NLS panel.
3. In the **Action on language items** field, type **4 (Customize Menu items option)**.
4. Press Enter to display the Menu item list panel shown in Figure 2 on page 13.



```

zSecure - Setup - NLS (- SYSTEM DEFAULT ROW 1 OF 246
Command ==>                               Scroll ==> CSR
Specify action for menu item(s): Edit, Insert, Copy, Delete
Standard options  Option and text as shown on panel

- SE              SE Setup              Options and input data sets
- SE 0            0 Run                  Specify run options
- SE 1            1 Input files          Select and maintain sets of input data set
- SE 2            2 New files            Allocate new data sets for UNLOAD and CKFR
- SE 3            3 Preamble             CARLa Commands run before every query
- SE 4            4 Confirm              Specify command generation options
- SE 5            5 View                 Specify view options
- SE 7            7 Output               Specify output options
- SE 8            8 Command files        Select and maintain command library
- SE E            E E-mail              Configure e-mail address lists
- SE U            U User defined         User defined input sources
- SE C D          D Data sets           Maintain lists of sensitive data sets
- SE C M          M Site msgs           Site defined message table
- SE C C          C zSecure msgs        zSecure defined message table
- SE N            N NLS                 National language support
- SE T            T Trace               Set trace flags and CARLa listing for diag
- SE V            VM VM Files           Copy RACF/VM database (VM only)

```

Figure 2. Customizing selection options from the Setup - NLS panel

5. To work with a Menu item, type one of the following commands in the Menu item selection field:
  - E to edit the settings for an existing item.
  - I to add a Menu item.
  - C to copy a Menu item entry as a template for creating an item.
  - D to delete a Menu item.
6. Press Enter.
7. On the Menu item specification panel, specify the Menu item settings. For more information, see “Menu Item specification panel.”
8. Press Enter to save the changes and return to the Menu item list panel.
9. Repeat steps 5 - 8 for each Menu item you want to customize.
10. Press F3 to exit.
11. At the prompt, type one of the following options to process the changes:
  - N applies the updated settings only to new users.
  - Y applies the updated settings to all users when they log in.

**Menu Item specification panel**

Figure 3 on page 14 shows the panel for customizing Menu item settings. This panel is displayed when you edit, copy, insert, or delete a Menu item on the Setup - NLS Line command list panel shown in Figure 2.

```

zSecure - Setup - NLS (- SYSTEM DEFAULTS)
Command ==>
Official option . . SE 0          (also used for profile checking)

Specify action for Menu item
1 1. Use as specified below      2. Delete Menu item
  3. Reset to system defaults    4. Reset to zSecure defaults

Menu option . . . . 0          (as displayed on user menu)
Short description . . Run
Long description . . Specify run options
Command (or MENU) . . CMD(%C2REDFLL NO &C2RNSE0)
Panel for "MENU" . . _____ New menu . . N (Y/N)

Press ENTER to continue.

```

Figure 3. Setup NLS options - Menu item specification panel

Use the following option and field descriptions to customize the Menu item and process the changes.

**Official option**

Provides the link to the System Authorization Facility (SAF) resource, which is checked for this Menu item. The specification also determines the order of the Menu items on the Menu panels. You can specify a three-level deep value. For example, specifying RA 4 2, places the option on the **RA.4** menu.

You can change the Official option value only when you initially define a Menu item. To change the value for an existing Menu item, use the Copy and Insert line commands to create an entry that you can modify.

The product provides a set of default Menu items. If you add a new Menu item, include at least one of the following characters: @, #, or \$ in the **Official option** value. These characters identify installation-defined items. If the value does not contain one of these characters, the Menu item is deleted when an NLS upgrade is applied.

**Specify action for menu item**

Specifies how to process the Menu item when you press Enter. Table 5 explains the available options.

Table 5. Actions available for selecting and customizing language and display options for Menu items

| Action                                       | Description  |
|--|--|
| <b>1. Use as specified below</b>             | Applies the menu items settings and exits the panel.   |
| <b>2. Delete menu item</b>                   | Deletes the selected Menu item and exits the panel.  |
| <b>3. Reset all items to system defaults</b> | Resets the Menu item to the system default descriptions and behavior and exits the panel. If no defaults have been specified, the product runs with the zSecure default configuration. |
| <b>4. Reset to zSecure defaults</b>          | Resets the Menu item to the original product settings for the language specified.  |

**Menu option**

Specifies the Menu option value to show on the Menu panel. You can specify multiple Menu items that have the same option value with different configurations. Use this configuration to provide the same option value for

different profiles. For example, one group of users sees the first menu item while the other group sees the second item. However, the option value shown on the menu is the same.

User changes to menu options are propagated during an NLS upgrade. For user options, enter the same **Menu option** value that is specified in the **Official option** field.

### Descriptions

Specifies the short and long descriptions shown on the Menu panel. If you customize the descriptions, the values are propagated when an NLS upgrade is applied.

### Command (or MENU)

Specifies the command to run when a user selects the Menu item. This value can be a command (%CMD) or panel as normally specified in the ISPF panel body. To indicate that the Menu item opens a Menu when selected, specify MENU *xx*, where *xx* is the official option under which the menu items are defined. For example, MENU SE opens a menu that contains all the items with an Official option value of SE *xx*. MENU SE D shows a menu containing all the items with the Official option value SE D.

To open the next menu on a panel other than the main panel, specify the panel name in the field **Panel for "MENU"**. Except for the LO (local) option, user changes to the command field are *not* propagated during an NLS upgrade.

### Panel for "MENU"

Specifies the panel to open when a user selects the Menu option.

### New menu

If selected, add the Menu item to the Main menu. Use the following options to specify how the item is displayed:

Y to display the item on the Main menu.

N to display the item as expandable on the Main menu.

For expandable options, leave the **Panel for "MENU"** field blank and specify MENU "*option name*" in the **Command (or MENU)** field; for example, MENU R@.

## Customizing action line commands

In zSecure, you can configure the resources that determine which line commands are available on various panels. When the command runs, zSecure checks for READ access to the resource profile \$C2R.ACTION.*xx.y.z*, where:

*xx* is the NEWLIST type.

*y* is the entity type.

*z* is the action.

You can customize the line commands in the following ways:

- Change the characters for running the command.
- Change the short or long description.
- Add or delete a line command.
- Customize the panel for the line command (Advanced users only).

To customize a line command, do the following steps:

1. From the Setup menu, type **SE.D** to display the Setup Defaults panel.
2. Type **N** to display the Setup - NLS panel.

3. In the **Action on language items** field, type **5 (Customize action line commands)**.
4. Press Enter to display the line command list panel shown in Figure 4.

```

zSecure - Setup - NLS (- SYSTEM DEFAULT ROW 33 OF 316
Command ==>                               Scroll ==> CSR
Specify action for menu item(s): Edit, Insert, Copy, Delete
Standard options  Option and text as shown on panel
- RC D AC        AC Access           Access Check for one userid or group
- RC D C          C Copy              Copy data set profile
- RC D D          D Delete            Delete data set profile
- RC D E          E Event             Display event logging
- RC D L          L List              RACF listdsd command
- RC D LD         LD List profile     RACF listdsd DSNS command
- RC D LR         LR List profile     List datasets covered by profile
- RC D MI         MI Instdata         Manage data set instdata
- RC D MU         MU Userdata         Manage installation-defined USRDATA
- RC D R          R Recreate          Recreate data set profile
- RC D S          S Select            Show additional information
- RC D SE         SE Segments         Show application segments
- RC G A          A Authorization     Group authorization (permits and scope)
- RC G AC         AC Access           Show access for group
- RC G C          C Copy              Copy groupid
- RC G D          D Delete            Delete group

```

Figure 4. Setup NLS - Select line commands for customization

5. To work with a line command, type one of the following commands in the Line command selection field:
  - **E** to edit the settings for an existing menu item.
  - **I** to add a Line command.
  - **C** to copy a Line command entry as a template for creating an item.
  - **D** to delete a menu item.
6. Press Enter.
7. On the Line command specification panel, specify the line command settings. For more information, see “Line command specification panel.”
8. Press Enter to save the changes and return to the Line command list panel.
9. Repeat steps 5 - 8 for each line command you want to customize.
10. Press F3 to exit.
11. At the prompt, select one of the following options to process the changes:
  - N** applies the updated settings only to new users.
  - Y** applies the updated settings to all users when they log in.

### Line command specification panel

Figure 5 on page 17 shows the panel for customizing line command settings. This panel opens when you edit, copy, insert, or delete a line command on the Setup - NLS Line command list panel shown in Figure 4.

```

zSecure - Setup - NLS (- SYSTEM DEFAULTS)
Command ==>
Newlist type . . . . RC          (i.e. RC for RACF)
Entity type  . . . . U          (i.e. U for USER)
Action . . . . . C            (i.e. C for COPY)

Specify action for Menu item
1 1. Use as specified below      2. Delete Menu item
  3. Reset to system defaults    4. Reset to Security zSecure defaults

Used action . . . . C          (as displayed on user menu)
Short description . Copy
Long description . Copy userid
Panel . . . . . C2RP&CKREREL.UC@ (panel to use for action specification)

/ Map CARLa fields into ISPF variables

Press ENTER to continue.

```

Figure 5. Setup NLS options - Line command specification panel

The following list describes the options and fields available for customizing line commands:

**NEWLIST type**

Specifies the report type (NEWLIST) for which the line command is valid. You use a NEWLIST type template to select data and generate zSecure reports. Together with the entity type and action, the NEWLIST type determines the profile to check. In Figure 5, the action settings apply to RACF reports (NEWLIST TYPE = RC).

**Entity type**

Lists the entity type for which the line command is available; for example: USER, GROUP, or RESOURCE.

**Action**

Specifies the action to run. You can view the actions defined in the product by scrolling through the line command list on the Setup - NLS panel shown in Figure 4 on page 16.

To add a new action command, include at least one of the following characters: @, #, or \$ in the Action name. These characters identify installation-defined action command. If the custom action name does not contain one of these characters, it is deleted when an NLS upgrade is applied.

**Specify Action for Menu item**

Determines how to process the line command specification panel. Table 6 lists the available options.

Table 6. Actions available for selecting and customizing language and display options for line commands

| Action                                | Description  |
|---------------------------------------|--|
| 1. Use as specified below             | Applies the line command settings specified.   |
| 2. Delete menu item                   | Deletes the specified line command and exits the panel.  |
| 3. Reset all items to system defaults | Resets the line command to the system default descriptions and behavior. If no defaults have been specified, the default zSecure settings apply. |
| 4. Reset to zSecure defaults          | Resets the line command to the original product settings for the language specified.   |

**Used action**

Specifies the line command available on the panels and shown in the action-pop-up panel. Changes to this field are propagated during an NLS upgrade.

**Description**

Specifies the short and long description for the line command. The long description shows on the action-pop-up panel. Changes to these descriptions are propagated during an NLS upgrade.

**Panel**

Specifies the panel to open when the action is specified. In the official zSecure panels, the variable &CKREREL. provides pull-down and non-pull-down panel functions. User changes to the panel field are *not* propagated during an NLS upgrade.

**Map CARLa fields into ISPF variables**

Select this field to define a link between CARLa variables and ISPF variables. You must use CARLa-variables in query statements. Use ISPF-variables to show values on the specified panel.

### Adding and selecting CARLa command libraries (SE.D.8)

Use the Setup Default - Command files option (SE.D.8) to specify the CARLa command libraries for the product. These CARLa command libraries contain scripts that perform zSecure functions. You can manage the scripts and run them from the **Setup Default - Command** file panel and also from the **Command (CO)** menu option.

zSecure provides the CKRCARLA library, which contains sample programs. This library is automatically included in the library definitions when you install the product.

Select the Setup Default - Command files option to display the Setup - Command file panel shown in Figure 6. Use this panel to manage the command libraries.

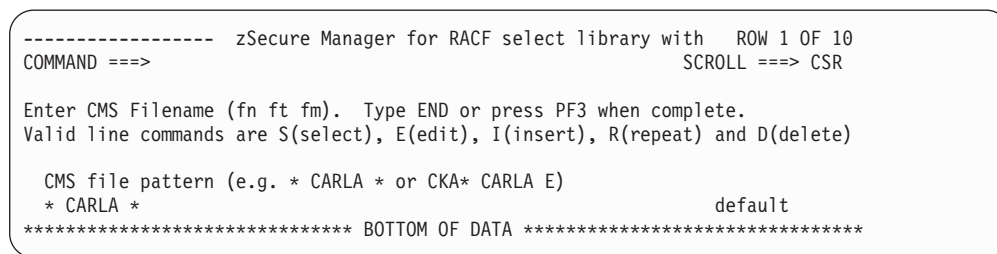


Figure 6. Setup - Command file panel

You must specify a CMS filename (fn) filetype (ft) filemode (fm) or a pattern. Use the line commands described in Table 7 to manage the library list and select libraries.

Table 7. Available Line Commands

| Line command | Description  |
|--------------|--|
| E            | Lists the script files from the CMS mini disks.      |
| D            | Deletes the file (fn ft fm) from the selection list. |

*Table 7. Available Line Commands (continued)*

| <b>Line command</b> | <b>Description</b>   |
|---------------------|--|
| <b>I</b>            | Adds a new line to the selection list for specifying the name of another member. |
| <b>R</b>            | Copies an entry to a new line so that you can edit the CMS file name.            |
| <b>S</b>            | Makes the CMS file available to all zSecure users.                               |





---

## Chapter 5. Making the software available in CMS

Use the following procedure to make the installed software available to CMS users.

**Note:** If you are upgrading from a previous release of the product, see “Upgrading the product for CMS users.”

1. Copy the start program for the product to the minidisk for local tools or to another location that users have access to when they log on.

The default start program, CKV, is a REXX program provided on the production build disk. You might need multiple copies of this program if you deploy the product on multiple z/VM images or require different configurations for different users. For information, see “Setting up the configuration file” on page 7.

2. For each program, review the following parameter settings and adjust them if necessary:

```
configurationFile      = 'C2R$PARV CKVPARM *'  
codeMiniDisk          = '5655T13C 200'  
codeVirtualAddress    = 'ACF'  
codeFileMode          = 'E'
```

### **configurationFile**

Specifies the file (file name, file type, file mode) that configures zSecure Manager for RACF z/VM. See Chapter 4, “Configuring zSecure Manager for RACF z/VM,” on page 7.

You can override the configuration file at run time by specifying a configuration file name on the start command for the product. See “Selecting a configuration file” on page 7.

### **codeMiniDisk**

Specifies the owner and device number of the minidisk for the installed software. The owner is a VM user ID. CodeMiniDisk must correspond to the VM Directory entry of the user ID that installed the product. Typically, the VM user ID is 5655T13C and the installed software is found on a production build minidisk with a device address of 200.

### **codeVirtualAddress**

Specifies the virtual address of the minidisk for the installed software. The LINK command uses this address to access the minidisk.

### **codeFileMode**

Specifies the file mode for accessing the minidisk with the installed software.

3. Establish the method to start the program in CMS. See “Establishing the start method for CMS users” on page 22.

---

## Upgrading the product for CMS users

If you are upgrading from a previous release, then you might have a customized copy of the start program: CKV or C2REVM, as it was previously named. You can continue using your customized start program with the new release. However, you must review the custom copy to determine whether it requires any updates.

To prepare to upgrade the product, do the following steps:

1. Examine the CKV REXX program provided with the new software to determine whether it contains any new logic. If necessary, adapt your customized program to incorporate the changes.
2. If you install the new software on a different minidisk, update your version of the REXX start program to point to the new minidisk.
3. If necessary, adapt the procedures to start the product in CMS. See “Establishing the start method for CMS users.”

---

## Establishing the start method for CMS users

You can use zSecure in several different modes.

### Full-screen mode

Using zSecure in full-screen mode requires ISPF.

- If you are already using ISPF for other products, you probably have a local menu that gives access to your ISPF applications. In that case, update this menu to include zSecure. The following example shows the menu entry for zSecure. The menu entry for RACF is also shown, as an example only:

```

/*****/
/* MENU SHOWN TO USER                               */
/*****/
%   R +RACF      - Resource Access Control Facility
%   Z +ZSECURE   - zSecure Manager for RACF z/VM
%
%
/*****/
/* ACTION CHARACTER TRANSLATION                       */
/*****/
      R, 'CMD(EXEC RACF ISPF) NEWAPPL(ICH) '
      Z, 'CMD(CKV) '
      , , ,
      X, 'EXIT'

```

- If you are not already using ISPF applications, you can have your users start zSecure from the CMS command line. zSecure starts ISPF, as long as the ISPFMiniDisk parameter in the zSecure configuration is correct. The command is:

```
CKV
```

Instead of CKV, you might want to substitute the name that you assigned to your local copy of the start program.

### Line mode

Running zSecure in line mode means that the ISPF Dialog Manager is not being used. When ISPF is not installed in your system, this mode is selected automatically. When ISPF is available, and you nevertheless want to use zSecure in line mode, use the following command:

```
CKV ( MODE=LINE
```

### Unattended

Production processes, like the daily refresh of the CKFREEZE and UNLOAD files, often run unattended; for example, in a userid that is XAUTOLOGged at regular intervals. Set up such a userid and create a PROFILE EXEC to directly call **CKV****COLL**, **CKRCARLA**, or both. For instructions, see the *IBM Security zSecure Manager for RACF z/VM: User Reference Manual*. Make sure that your PROFILE EXEC includes a **LOGOFF** command; otherwise the userid might remain active (although disconnected) and a subsequent XAUTOLOG will fail.

---

## Chapter 6. Setting up for production

Perform the following procedures to set up the product for production:

- “Capacity planning”
- “Specifying the default input set” on page 25
- “Setting up the daily collection process” on page 25
- “Refreshing the CKFREEZE file” on page 27

---

### Capacity planning

The IBM Security zSecure Manager for RACF z/VM product consists of multiple components. The product provides functions for reporting about information in the security database, reporting about events that occurred in the system (SMF), and detailed analysis of the security environment. See the sections that follow for information about possible data set sizes, virtual storage needs, and CPU time requirements.

You can find planning information for the following types of system resources in this section:

- Direct access storage device (DASD) storage required for storing the data used or created by the program
- Virtual storage required for running the program
- CPU time used by the program

### DASD storage

Data storage on DASD (disk) as used by zSecure is mainly for the following types of data:

#### CKFREEZE

This type of file contains information about the system and resources. This includes many system control blocks and information about the system configuration. The CKFREEZE file is created by the zSecure CKVCOLL program. The information is used by other zSecure components. For daily zSecure usage, you need a CKFREEZE file for each system that you are managing.

In the z/VM environment, CKFREEZE files are created by the CKVCOLL program. In contrast to the CKFCOLL program on z/OS, the CKVCOLL program does not provide many options to specify the information collected. The CKVCOLL program collects information from RACF, the real device configuration, and certain virtual devices (mainly networking devices). It also extracts information from the specified USER DIRECT file. The size of the resulting CKFREEZE file mainly depends on the number of real devices present in the system and the number of users and minidisks defined in the USER DIRECT file.

As a rule, you can use the following amounts for the space required in the CKFREEZE file:

- 0.1 MB base size
- One third of the size of the USER DIRECT file
- 1 MB per 5000 defined real devices

In a formula:

$$\text{Size(MB)} = 0.1 + U/3 + D/5000$$

where:

U = size of the USER DIRECT file

D = number of defined real devices

The size of the USER DIRECT file as used in this calculation is the size in megabytes of the file when using 80-byte fixed-length records. If you use a different record format, or different line length, the size calculation must be adapted accordingly.

### **RACF Data**

zSecure Manager for RACF z/VM often needs information from a RACF source. This source can be an existing RACF database. No extracts or copies are required. You can also use a private backup copy of the RACF database. If you use a private backup copy, plan for DASD space equal to the size of your current database. You can also use a proprietary format UNLOAD copy of the RACF database. Such an UNLOAD file can be used as frozen input to generate reports. The size of an UNLOAD file is approximately the same as the used part of your database. The UNLOAD file has, as an additional advantage, that all sensitive fields like passwords have been removed from the UNLOAD copy.

### **SMF Data**

This data is not unique to zSecure. SMF records are created to provide information about the security environment and events in the system. They contain information that is useful for auditing purposes. Data is collected about many different types of events. zSecure Manager for RACF z/VM can use SMF data as input to report about historic events in the system. If you want to report about events for a certain period, the SMF data for that period must be available. The required data can be on tape or on DASD. For reporting about SMF events, processing of the SMF data sets is sequential. Therefore, multiple data sets with SMF records can be on the same tape.

## **Virtual storage**

Virtual storage is needed while running the program. The amount of virtual storage needed is dependent on the amount of data processed during the report or analysis. For most types of reports, the virtual storage needed is of the same order as the size of the output report. For example, if you are generating a report of 4,000,000 SMF records with detail information, the program needs sufficient space to retain all unique field values that occur in these records. Typical reports require up to 250 MB of virtual memory. You can significantly reduce virtual storage requirements by careful selection of the type of events, users, or resources to be included in the report.

## **CPU time**

The amount of CPU time used is the CPU time used by the user who is running the zSecure programs to create reports. The CPU time needed for creating interactive reports depends on the size of the data to be analyzed and the size of the resulting report. Typical reports take a few seconds to create. Large reports might take several minutes. Due to the amount of data, generating large SMF summary reports might take a significant amount of CPU time.

## **Network load**

Security zSecure Manager for RACF z/VM does not generate any significant network load.

---

## Specifying the default input set

For new users, update the following configuration parameters to specify a default input set containing the RACF database on an OS-formatted minidisk. These parameters are included in the default zSecure configuration file C2R\$PARV CKV Parm or the customized configuration file you created previously.

- **racfDbDataset**
- **racfMiniDisk**
- **racfFileMode**
- **racfVirtualAddress**

For more information, see the following topics:

- “Setting up the configuration file” on page 7
- Appendix A, “Configuration parameters,” on page 31

---

## Setting up the daily collection process

The zSecure Collect program (CKVECOLL) collects the required data and writes it to a CKFREEZE file. This file is the input data source for RACF administration and auditing functions. Any user ID that collects this information must have privilege classes B, E, and G.

You can run the data collection process using any of the following methods:

- From the Setup - Input files menu, select the **Allocate new data sets for CKFREEZE** to set up the files and collect the data. Instructions are available on the panel and in the ISPF online help (F1).
- Run the command to start the program directly from CMS:  
CMS CKVECOLL <parameters> (<commands>)
- Run the REXX program CKVECOLL from a user ID that can log on using AUTOLOG or XAUTOLOG commands.

This method requires starting the program from the PROFILE EXEC. After starting the program, subsequent processing is required to archive or save the collected data.

If a user must collect statistics on a regular basis, use this method for the daily collection process.

For information about the CKVECOLL parameters and commands, see “Data collection parameters.”

### Data collection parameters

The following example shows the syntax to run the CKVECOLL program from CMS or from the PROFILE EXEC of a user ID that can log on with AUTOLOG or XAUTOLOG commands.

```
CKVECOLL <parameters> (<commands>)
```

You can specify optional input parameters for the CKVECOLL program to identify the system and VM Directory file for the input data source. When the program runs, it uses these values to search for the data source. If you do not supply either of these parameters, the program collects information and creates USER SYSPRINT and USER CKFREEZE files.

The following list describes the optional parameters. For examples using these parameters, see “Examples: Commands for collecting and storing data” on page 26.

**System name**

Optional. The system name specifies the system that is the source for the data collection. If you use this parameter, specify it before the VM directory file source parameter.

**VM directory file source**

Optional. The VM directory file source parameter specifies the directory source for the data. This parameter can have several formats:

**name**

A single value is interpreted as a file name. The program assigns a default file type of DIRECT. When the program runs, it searches all available disks for the VM Directory file with the specified name.

**name type**

With two values, the first value is the file name; the second specifies the file type. When the program runs, it searches all available disks for the VM Directory file with the specified file name and file type.

**name type mode**

Three values are parsed as file name, file type, and file mode.

**Examples: Commands for collecting and storing data**

The following examples show the different methods to run the CKVECOLL program to collect data and store it in the VMASYS SYSPRINT and VMASYS CKFREEZE files.

**Collect data using the default VM system directory.**

When you run the following command, the directory information must be in the VMASYS DIRECT file. The data is written to USER VMASYS and USER CKFREEZE files.

```
ckvecoll
```

**Collect data using a specified VM system directory**

When you run the following command, the directory information must be in VMASYS DIRECT. The data is written to the VMASYS SYSPRINT and VMASYS CKFREEZE files.

```
ckvecoll vmasys
```

**Collect information using a specified file**

When you run the following command, the directory information must be in the USER DIRECT file. The data is written to the VMASYS SYSPRINT and VMASYS CKFREEZE files.

```
ckvecoll vmasys user
```

**Collect information using a specified system and a VM directory called VMSYS BACKUP**

When you run the following command, the VM directory file information must be in the VMSYSYS BACKUP file. The data is written to the VMASYS SYSPRINT and VMASYS CKFREEZE files.

```
ckvecoll vmasys vmsys backup
```

**Collect information from a specified system from the file with the specified file name, file type, and mode**

When you run the following command, the directory information must be in the USER BACKUP M file. This command specifies a specific data source that does not require searching the available disks for the VM directory file. The data is written to the VMASYS SYSPRINT and VMASYS CKFREEZE files.

```
ckvecoll vmasys user backup m
```

---

## Refreshing the CKFREEZE file

All Audit functions and many Admin functions require a CKFREEZE file that contains the collected system data. After you create the initial CKFREEZE file, use the REFRESH transaction from the Setup files panel to refresh the data at regular intervals. For information about creating the CKFREEZE and collecting data, see Chapter 6, “Setting up for production,” on page 23 and “Setting up the daily collection process” on page 25.

1. From the product menu, type **SE.1** on the command line to display the Setup - Input Files panel.
2. Run the **F** line command to refresh the CKFREEZE file.
3. Press Enter to generate the new CKFREEZE file.





---

## Chapter 7. Verifying the installation

Before notifying users that the software is available, run the following checks to confirm that the software was installed and configured correctly.

- “Checking the base UI functions”
- “Checking the zSecure Collect function”
- “Checking installation-defined option settings” on page 30

---

### Checking the base UI functions

Verify that the primary menu and menu options operate correctly:

1. To verify that the primary menu works, start the program from the ISPF panel selection or from the CMS command line. See Chapter 5, “Making the software available in CMS,” on page 21.

#### Example run command for customized configuration file

```
CMS CKV (CONFIG = MYCONFIG configfiletype x)
```

2. If the product does not start in ISPF, take the following actions:
  - Verify the location and name of the configuration file.
  - Review the settings to verify that the product is configured correctly. (See Chapter 4, “Configuring zSecure Manager for RACF z/VM,” on page 7.)
3. From the Main Menu, select several options to make sure that the panels open correctly and have the expected content.

To customize the product panels, see “Customizing options for user groups” on page 10

---

### Checking the zSecure Collect function

Verify that the zSecure Collect function collects data:

1. Log on with a user ID that has privilege classes B, E, and G.
2. Confirm that the user ID has at least read access to the minidisk where the VM directory file is stored, or a copy of the VM Directory file.
3. From the zSecure Manager for RACF z/VM main menu, type **SE.1** (Setup files) on the command line.
4. Remove the selection entry from all selected input sets.
5. Create a CKFREEZE file:
  - a. Type **SE.2** on the command line at the top of the main menu to display the Setup - New files panel.
  - b. When prompted, specify the allocation parameters for the CKFREEZE file. Allocate 2 MB for each online DASD-volume.
6. To collect and write data to the files, run the REFRESH command from the **SE.1** menu option.
7. Browse the newly allocated CKFREEZE file to verify that it contains the expected data.

---

## Checking installation-defined option settings

The optional CKRSITE load library contains any installation-defined values for zSecure installation settings. See “Customizing installation option settings” on page 8.

If a CKRSITE load library exists, verify that it works and that the reported values match those values specified in the CKRSITE ASSEMBLE code for building the library.

1. Start the product in line mode:

```
CKV ( MODE = LINE
```

where CKV is the name of the REXX program that starts the product.

2. Type **SHOW CKRSITE** to show the installation-defined values for the installation settings.
3. Press Enter three times.
4. Examine the SYSPRINT for the portion showing the installation settings.

The following code samples show the default values.

```
CKR0009 00 No customer/site specific name to be used as default CHECKPWD
          Running under CMS
          CPU-id
          Product codes MANAGERVM
          5655-T13 IBM Security zSecure Manager for RACF z/VM
```

```
CKR0525 00 Contents of CKRSITE module:
          Class:           XFACILIT
          Authority:       SINGLE
          Force restrict:   N
```

5. Check that the reported values match the values specified in the CKRSITE ASSEMBLE code.

---

## Appendix A. Configuration parameters

The Configuration parameters define the location of the software and other resources required to run the product. These parameters are specified in the configuration file described in the Chapter 2, “Installation overview,” on page 3. Several of the configuration parameters use the *file mode* setting. The CMS ACCESS command also uses this setting. Starting the product establishes the access for the minidisk where the software is stored. See Chapter 5, “Making the software available in CMS,” on page 21. For all other file modes that are specified in the configuration, you must set up the appropriate LINK and ACCESS commands in advance. This configuration is not required for files stored on the same minidisk as the software.

You can also code parameters that are listed for the configuration as overrides. The following example shows the command to start the product with an override for the configuration file.

```
CKV (CONFIG = MYCONFIG C2RPARM A
```

The following example shows a Start command that overrides the CUSTOMIZATIONFILEMODE specified in the configuration file.

```
CKV (CUSTOMIZATIONFILEMODE = ''
```

The following list describes the configuration parameters:

### **customizationFileMode**

Specifies the file mode to access the minidisk location for configuration files and any SETUP DEFAULT option files created to customize the ISPF interface. If your site uses Setup Default options, specify a file mode that permits update access to the minidisk. Otherwise, read access is sufficient.

If minidisk location cannot be linked and accessed using the specified file mode when the product starts, you can start the program from the ISPF interface. Starting the program from ISPF can prevent users from inadvertently working with incorrect configuration settings like the wrong input file set.

**Note:** SETUP DEFAULT option files have *file type* C2RPROF. If no SETUP DEFAULT files are available, they are disabled. You can create them using the SETUP DEFAULT options described in “Customizing options for user groups” on page 10.

### **init**

Indicates the parameter values the program uses when it starts. You can specify either of the following values:

**YES/RESET** reset all parameters to their defaults. The parameter values can be system defaults, or the values that have been set from the Setup Default (**SE.D**) option.

**NO** Use the parameter values from the last session for the user ID.

### **racfDbDataset**

Specifies the data set name of the RACF database stored on an operating-system-formatted minidisk. This data set provides the default input set and provides the input set for transaction SE.VM from the REXX program CKVECOPY. See “Specifying the default input set” on page 25.

On z/VM 6.2 and higher, you can leave this parameter blank to set the active RACF backup database as the default for new users.

**Note:** The active RACF database requires access to security resource VMCMD DIAG0A0.RACONFIG.

#### **racfDBCMS**

Identifies the file name, file type, and file mode for the copy of the RACF data base in CMS format. This file receives the data generated by transaction SE.VM from the REXX program CKVECOPY.

#### **racfFileMode**

Specifies the *File mode* to access the *racfDbDataset*. You can specify *freemode* to automatically deduce a file mode if you have the ISPF product installed. This file mode is used for selecting the default input set. See “Specifying the default input set” on page 25.

#### **racfMiniDisk**

Specifies the mini disk location of the RACF database copy that you specified in *racfDbDataset*. Specify the value as: *userid minidisk* where the values match the VM directory that defines the minidisk under its owner. This minidisk is checked when the default input set is selected. See “Specifying the default input set” on page 25.

#### **racfVirtualAddress**

Specifies the virtual address to access the RACF database copy specified in the *racfDbDataset* parameter. You can specify *freeaddr* to automatically deduce a virtual address if you have the ISPF product installed. This address is checked when the default input set is selected. See “Specifying the default input set” on page 25.

#### **workFileMode**

Allocates the work files created by the ISPF interface.

#### **description, ckfreeze, smf, unload**

Describes a set of input files available to all users of this configuration. When you specify a *description*, you also must specify the correct CKFREEZE, SMF, or unload input file source.

For example, you can specify the following values in the *description*, *ckfreeze*, and *smf* fields:

|                    |                      |
|--------------------|----------------------|
| <i>description</i> | = 'Default set'      |
| <i>ckfreeze</i>    | = 'DAILY CKFREEZE D' |
| <i>smf</i>         | = 'DAILY SMF D'      |

Based on these values, zSecure Manager for RACF z/VM uses the indicated CKFREEZE and SMF files. When running in line mode, FILEDEFs are generated for these input files.

These input files provide the default input source when the option to use the last input source is not enabled for a user ID. Use the Setup Default option to change the setting that specifies what values to use when the product starts.

#### **mode**

Represents the mode that the product is in when it is started by the CKV REXX program. The mode value can be LINE, ISPF, or ISPFPDF.

If the mode parameter is not set and ISPF is available, ISPF is used. If the mode parameter is not set and ISPF is not available, LINE is used.

LINE starts the product in a data entry session, ready to receive CARLa commands.

ISPF starts the product at the Main Menu. CMS XEDIT and BROWSE functions are used.

ISPFPDF starts the product at the Main Menu. ISPF/PDF EDIT and BROWSE functions are used.

**Note:** ISPF/PDF for VM/SP (5684-123) is not supported as of 1998.

**ISPFMiniDisk**

Specifies the minidisk location of the ISPF code. Specify the value as: *userid minidisk*, where the values match the VM directory that defines the minidisk under its owner. When **CKV** is called with **MODE=ISPF** or **MODE=ISPFPDF** and the ISPF code is not found, this disk is linked and accessed.



---

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