Program Directory for

IBM Security zSecure Manager for RACF z/VM

Version 2 Release 5.1

Program Number 5655-RAC

for Use with
z/VM Version 7 Release 1.0
z/VM Version 7 Release 2.0

Document Date: October 2021

GI13-5253-00

Note

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 33.

This program directory, dated October 2021, applies to IBM Security zSecure Manager for RACF z/VM Version 2 Release 5.1 (IBM Security zSecure Manager for RACF z/VM), Program Number 5655-RAC.

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1.0 Introduction

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 Manager for RACF® z/VM®. You should read all of this program directory before installing the program and then keep it for future reference.

The program directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic and optional program materials and documentation for IBM Security zSecure Manager for RACF z/VM.
- 3.0, “Program Support” on page 6 describes the IBM support available for IBM Security zSecure Manager for RACF z/VM.
- 4.0, “Program and Service Level Information” on page 7 lists the APARs (program level) and PTFs (service level) incorporated into IBM Security zSecure Manager for RACF z/VM.
- 5.0, “Installation Requirements and Considerations” on page 8 identifies the resources and considerations for installing and using IBM Security zSecure Manager for RACF z/VM.
- 6.0, “Installation Instructions” on page 11 provides detailed installation instructions for IBM Security zSecure Manager for RACF z/VM.
- 7.0, “Service Instructions” on page 27 provides detailed servicing instructions for IBM Security zSecure Manager for RACF z/VM.
- Appendix A, “Create Product Parameter File (PPF) Override” on page 31 provides detailed information on overriding the Product Parameter File (PPF).

Before installing IBM Security zSecure Manager for RACF z/VM, read 3.1, “Preventive Service Planning” on page 6. This section tells you how to find any updates to the information and procedures in this program directory.

1.1 Program Description

IBM Security zSecure Manager for RACF z/VM provides administrators with tools to help unleash the the potential of their mainframe system enabling efficient and effective RACF administration, while helping use fewer resources. By automating many recurring system administration functions, IBM Security zSecure Manager for RACF z/VM can help you maximize IT resources, reduce errors, improve quality of services and demonstrate compliance.

IBM Security zSecure Manager for RACF z/VM is also an audit tool, designed to help IBM Resource Access Control Facility (RACF) users efficiently measure and verify the effectiveness of their z/VM security and security policies. By viewing automatically generated reports in a standard format, you can quickly locate problems with attributes around a particular resource. As a result, you can reduce errors and improve overall quality of services. Designed to help RACF, users perform tasks more efficiently, IBM

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Security zSecure Manager for RACF z/VM also helps expert users extend and enrich security by enforcing and enhancing security policies.

2.0 Program Materials

An IBM program is identified by a program number. The program number for IBM Security zSecure Manager for RACF z/VM Version 2 is 5655-RAC.

The program announcement material describes the features supported by IBM Security zSecure Manager for RACF z/VM. Ask your IBM marketing representative for this information if you have not already received a copy.

The following sections identify:

- basic and optional program materials available with this program
- publications useful during installation.

2.1 Basic Machine-Readable Material

This program is available electronically by ordering it through the z/VM SDO using IBM ShopzSeries. For more information about IBM ShopzSeries go to www.ibm.com/software/ShopzSeries. The electronic envelope contains all the programs and data needed for installation. See section 6.0, “Installation Instructions” on page 11 for more information about how to install the program.Figure 1 describes the file content of the program envelop.

Figure 1. Program Tape: File Content

Tape File	Content
1	Tape Header
2	Tape Header
3	IBM Security zSecure Manager for RACF z/VM Header
4	IBM Security zSecure Manager for RACF z/VM Memo
5	IBM Security zSecure Manager for RACF z/VM Apply and Exclude lists
6	IBM Security zSecure Manager for RACF z/VM Partlists
7	IBM Security zSecure Manager for RACF z/VM Delta files
8	IBM Security zSecure Manager for RACF z/VM Apply files
9	IBM Security zSecure Manager for RACF z/VM Base Code
10	IBM Security zSecure Manager for RACF z/VM Executables

2.2 Optional Machine-Readable Material

There are no optional machine-readable materials for IBM Security zSecure Manager for RACF z/VM.

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2.3 Program Publications

The following sections identify the basic and optional publications for IBM Security zSecure Manager for RACF z/VM.

2.3.1 Basic Program Publications

One copy of the following publication is included when you order the basic materials for IBM Security zSecure Manager for RACF z/VM. You can print additional copies when electronic publications are available using the softcopy url provided in the Product Announcement letter or from: http://www.ibm.com/shop/publications/order

Figure 2. Basic Material: Unlicensed Publications

Publication Title	Form Number
IBM Security zSecure Manager for RACF z/VM: Program Directory	GI11-7865-04
IBM Security zSecure Manager for RACF z/VM License Information	GC23-7984-03
IBM International Program License Agreement (IPLA)	Z125-3301-14
IBM International Agreement for Acquisition of Software Maintenance (IASM)	Z125-6011-04

2.3.2 Client Documentation

Figure 3 identifies IBM Security zSecure Manager for RACF z/VM. IBM Security zSecure Manager for RACF z/VM. client documentation available through IBM Documentation at https://www.ibm.com/docs/en/szmfrz/2.5.1:

Figure 3. Material: Program Publications

Publication Title
IBM Security zSecure Manager for RACF z/VM Installation and Deployment Guide
IBM Security zSecure Messages Guide
IBM Security zSecure Manager for RACF z/VM User Reference Manual
IBM Security zSecure CARLa Command Reference

2.4 Program Source Materials

No program source materials or viewable program listings are provided for IBM Security zSecure Manager for RACF z/VM.

2.5 Publications Useful During Installation

The publications listed in Figure 4 on page 5may be useful during the installation of IBM Security zSecure Manager for RACF z/VM. To order copies, contact your IBM representative.

These publications can also be found at the z/VM Internet Library url listed below:
http://www.vm.ibm.com/library

Figure 4. Publications Useful During Installation / Service on z/VM Version 7

Publication Title	Form Number
z/VM: VMSES/E Introduction and Reference	GC24-6336
z/VM: Service Guide	GC24-6325
z/VM: CMS Command and Utility Reference	SC24-6260
z/VM: CMS File Pool Planning, Administration, and Operation	SC24-6261
z/VM: Other Components Messages and Codes	GC24-6300
z/VM: CMS and REXX/VM Messages and Codes	GC24-6255
z/VM: CP Messages and Codes	GC24-6270
z/VM: CP Planning and Administration	SC24-6271
z/VM: Saved Segments Planning and Administration	SC24-6322
IBM ISPF Quick Start Guide for VM V3R2	GI13-3554

3.0 Program Support

This section describes the IBM support available for IBM Security zSecure Manager for RACF z/VM.

3.1 Preventive Service Planning

Before installing IBM Security zSecure Manager for RACF z/VM, check with your IBM Support Center or use IBMLink™ (ServiceLink) to see whether there is additional Preventive Service Planning (PSP) information. To obtain this information, specify the following UPGRADE and SUBSET values:

Figure 5. PSP Upgrade and Subset ID

	Retain®		
COMPID	**Release**	**Upgrade**	**Subset**
5655T1300	251	ZSECVMRACF	ZSECURE/251

3.2 Statement of Support Procedures

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will tell you where to send any needed documentation.

Figure 6 identifies the component ID (COMPID), Retain Release and Field Engineering Service Number (FESN) for IBM Security zSecure Manager for RACF z/VM.

Figure 6. Component IDs

	Retain		
COMPID	**Release**	**Component Name**	**FESN**
5655T1300	251	IBM Security zSecure Manager for RACF z/VM 2.5.1	0400011

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4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of IBM Security zSecure Manager for RACF z/VM. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs shipped with this product. Information about the cumulative service tape is also provided.

4.1 Program Level Information

The following APAR fixes against the previous release of IBM Security zSecure Manager for RACF z/VM have been incorporated into this release.

VM65775
VM65850
VM65211
VM66208
VM66454
VM66493

4.2 Service Level Information

Check the ZSECVMRACF PSP bucket for any additional PTFs that should be installed or any additional install information.

4.3 Cumulative Service Tape

Cumulative service for IBM Security zSecure Manager for RACF z/VM Version 2 Release 5.1 is available through a monthly corrective service tape, Expanded Service Option, ESO. You need to specify the product ID, 5655RACE, when ordering the ESO.

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5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating IBM Security zSecure Manager for RACF z/VM.

5.1 Hardware Requirements

There are no special hardware requirements for IBM Security zSecure Manager for RACF z/VM.

5.2 Program Considerations

The following sections list the programming considerations for installing and activating IBM Security zSecure Manager for RACF z/VM.

5.2.1 Operating System Requirements

IBM Security zSecure Manager for RACF z/VM supports the following VM operating systems:

- z/VM Version 7 Release 1.0
- z/VM Version 7 Release 2.0

5.2.2 Other Program Product Requirements

The following VM Dialog Management program product is required to allow for IBM Security zSecure Manager for RACF z/VM to execute with full functionality

Figure 7. Other Program Product Requirements

Program Number	Product Name	Minimum VRM
5684-043	ISPF Version 3 for VM/SP	3.2 or higher

IBM Security zSecure Manager for RACF z/VM will execute without ISPF/DM being installed, however the IBM Security zSecure Manager for RACF z/VM panel interface will not be available.

When VM Dialog Management program product 5684-123 ISPF/PDF V3 VM version 3 or higher is also installed, IBM Security zSecure Manager for RACF z/VM can be configured to use PDF services by the MODE parameter (see IBM Security zSecure Manager for RACF z/VM: Installation and Deployment Guide SC27-4363)

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5.2.3 Migration Considerations

This section describes migration considerations and changes from previous releases.

- The recommendation is that the production disk not be in SFS. The documentation and install files have been changed to reflect this recommendation.

5.2.4 Program Installation and Service Considerations

This section describes items that should be considered before you install or service IBM Security zSecure Manager for RACF z/VM.

- VMSES/E is required to install and service this product.
- If multiple users install and maintain licensed products on your system, there may be a problem getting the necessary access to MAINT's 51D disk. If you find that there is contention for write access to the 51D disk, you can eliminate it by converting the Software Inventory from minidisk to Shared File System (SFS). See the *VMSES/E Introduction and Reference* manual, section "Changing the Software Inventory to an SFS Directory", for information on how to make this change.
- Customers will no longer install and service IBM Security zSecure Manager for RACF z/VM strictly using the MAINT*vrm* user ID, but will use a new user ID--5655RACE. This is the IBM suggested user ID name. You are free to change this to any user ID name you wish; however, a PPF override must be created.

  Note: It may be easier to make the above PPF override change during the installation procedure 6.2, “Plan Your Installation For IBM Security zSecure Manager for RACF z/VM” step 6 on page 13, rather than after you have installed this product.

5.3 DASD Storage and User ID Requirements

Figure 8 on page 10 lists the user IDs, minidisks and default SFS directory names that are used to install and service IBM Security zSecure Manager for RACF z/VM.

Important Installation Notes:

- User ID(s) and minidisks or SFS directories will be defined in 6.2, “Plan Your Installation For IBM Security zSecure Manager for RACF z/VM” on page 12 and are listed here so that you can get an idea of the resources that you will need prior to allocating them.
- 5655RACE is a default user ID and can be changed. If you choose to change the name of the installation user ID you need to create a Product Parameter Override (PPF) to reflect this change. This can be done in 6.2, “Plan Your Installation For IBM Security zSecure Manager for RACF z/VM” step 6 on page 13.
- If you choose to install IBM Security zSecure Manager for RACF z/VM on a common user ID the default minidisk addresses for IBM Security zSecure Manager for RACF z/VM may already be defined. If any of the default minidisks required by IBM Security zSecure Manager for RACF z/VM

are already in use you will have to create an override to change the default minidisks for IBM Security zSecure Manager for RACF z/VM so they are unique.

Figure 8. DASD Storage Requirements for Target Minidisks

Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
5655RACE	2B2	3390	200	288000	36000	Contains all the base code shipped with IBM Security zSecure Manager for RACF z/VM **VMPSFS:5655RACE.ZSECURE.OBJECT**
5655RACE	2C2	3390	2	2880	360	Contains customization files. This disk may also be used for local modifications. **VMPSFS:5655RACE.ZSECURE.LOCALSAM**
5655RACE	2D2	3390	40	57600	7200	Contains serviced files **VMPSFS:5655RACE.ZSECURE.DELTA**
5655RACE	2A6	3390	10	14400	1800	Contains AUX files and software inventory tables that represent the test service level of IBM Security zSecure Manager for RACF z/VM **VMPSFS:5655RACE.ZSECURE.APPLYALT**
5655RACE	2A2	3390	10	14400	1800	Contains AUX files and software inventory tables that represent the service level of IBM Security zSecure Manager for RACF z/VM that is currently in production. **VMPSFS:5655RACE.ZSECURE.APPLYPROD**
5655RACE	100	3390	150	216000	27000	Test build disk. This code will be copied to a production disk, (e.g. MAINT 19E) so the production disk will also require this amount of free space. **VMPSFS:5655RACE.ZSECURE.BUILDT**
ZSECURE	200	3390	300	432000	n/a	Production build disk. This should be double the size of the test build disk due to the way PUT2PROD now works. This disk should also reside on a local volume and be defined in the SUBCONFIG ID for every member of an SSI.
5655RACE	191	3390	30	43200	5400	5655RACE user ID's 191 minidisk **VMPSFS:5655RACE.**

6.0 Installation Instructions

This chapter describes the installation methods and the step-by-step procedures to install and activate IBM Security zSecure Manager for RACF z/VM.

The step-by-step procedures are in two-column format. The steps to be performed are in bold, large numbers. Commands for these steps are on the left-hand side of the page in bold print. Additional information for a command may exist to the right of the command.

Each step of the installation instructions must be followed. Do not skip any step unless directed to do so.

Throughout these instructions, the use of IBM-supplied default minidisk addresses and user IDs is assumed. If you use different user IDs, minidisk addresses, or SFS directories to install IBM Security zSecure Manager for RACF z/VM, adapt these instructions as needed for your environment.

Note

The sample console output presented throughout these instructions was produced on a z/VM 7.2 system. If you are installing IBM Security zSecure Manager for RACF z/VM on a different VM system, the results obtained for some commands may differ from those depicted here.

6.1 VMSES/E Installation Process Overview

The following is a brief description of the main steps in installing IBM Security zSecure Manager for RACF z/VM using VMSES/E.

- Plan Your Installation

  Use the VMFINS command to load several VMSES/E files from the product tape and to obtain IBM Security zSecure Manager for RACF z/VM resource requirements.

- Allocate Resources

  The information obtained from the previous step is used to allocate the appropriate minidisks (or SFS directories) and user IDs needed to install and use IBM Security zSecure Manager for RACF z/VM.

- Install the IBM Security zSecure Manager for RACF z/VM Product

  Use the VMFINS command to load the IBM Security zSecure Manager for RACF z/VM product files from tape to the test BUILD and BASE minidisks/directories. VMFINS is then used to update the VM SYSBLDS file used by VMSES/E for software inventory management.

- Perform Post-installation Tasks

  Information about file tailoring and initial activation of the program is presented in 6.6, “Post-Installation Considerations” on page 26.

- Place IBM Security zSecure Manager for RACF z/VM Files into Production

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Once the product files have been tailored and the operation of IBM Security zSecure Manager for RACF z/VM is satisfactory, the product files are copied from the test BUILD disk(s) to production BUILD disk(s).

For a complete description of all VMSES/E installation options refer to *VMSES/E Introduction and Reference*.

6.2 Plan Your Installation For IBM Security zSecure Manager for RACF z/VM

The VMFINS command will be used to plan the installation. This section has 2 main steps that will:

- load the first tape file, containing installation files
- generate a 'PLANINFO' file listing
  - all user ID and mdisks/SFS directory requirements
  - required products

Note

If you are installing IBM Security zSecure Manager for RACF z/VM from a product envelope, be sure to place the envelope file on the MAINT*vrm* 500 disk.

To obtain planning information for your environment:

1 Log on as IBM Security zSecure Manager for RACF z/VM installation planner.

This user ID can be any ID that has read access to MAINT*vrm*'s 5E5 minidisk and write access to the MAINT*vrm* 51D minidisk.

2 Provide the installation planning user ID access to the code.

link MAINT*vrm* 500 500 rr
access 500 c

3 Establish read access to the VMSES/E code.

link MAINT*vrm* 5e5 5e5 rr
access 5e5 b

The 5E5 disk contains the VMSES/E code.

4 Establish write access to the Software Inventory disk.

link MAINT*vrm* 51d 51d mr
access 51d d

The 51D disk is where the VMSES/E system-level Software Inventory and other dependent files reside.

Note: If another user already has the MAINT*vrm* 51D minidisk linked in write mode (R/W), you will only obtain read access (R/O) to this minidisk. If this occurs, you will need to have that user re-link the 51D in read-only mode (RR), and then re-issue the above LINK and ACCESS commands. Do not continue with these procedures until a R/W link is established to the 51D minidisk.

5 Load the IBM Security zSecure Manager for RACF z/VM product control files to the 51D minidisk. The VMFINS INFO command will perform the following:

- load Memo-to-Users
- load various product control files, including the Product Parameter File (PPF) and the PRODPART files
- create VMFINS PRODLIST on your A-disk. The VMFINS PRODLIST contains a list of products on the installation tape.

vmfins install info (nomemo env *envfilename*

envfilename is the file name of the product envelope file. The file type must be SERVLINK.

The NOMEMO option will load the memos from the envelop but will not issue a prompt to send them to the system printer. Specify the MEMO option if you want to be prompted for printing the memo.

This command will perform the following:

```
VMFINS2760I VMFINS processing started
VMFINS1909I VMFINS PRODLIST created on your A-disk
VMFINS2760I VMFINS processing completed successfully
Ready;
```

6 Obtain resource planning information for IBM Security zSecure Manager for RACF z/VM.

Notes:

a. The product will **not** be loaded by the VMFINS command at this time.

b. If you change the PPF name, a default user ID, or other parameters via a PPF override, you will need to use your changed values instead of those indicated (when appropriate), throughout the rest of the installation instructions, as well as the instructions for servicing IBM Security zSecure Manager for RACF z/VM. For example, you will need to specify your PPF override file name instead of 5655RACE for certain VMSES/E commands.

c. If you are not familiar with creating PPF overrides using VMFINS, you should review the "Using the Make Override Panel" section in Chapter 3 of the *VMSES/E Introduction and Reference* before you continue. This same chapter has information about changing the VMPSFS file pool name, if you need it.

vmfins install ppf 5655RACE {ZSECURE | ZSECURESFS | ZSECUREBATCH | ZSECUREBATCHSFS} (plan nomemo env *envfilename*

envfilename is the file name of the product envelope file. The file type must be SERVLINK.

Use

- **ZSECURE** for installing on minidisks with UI (requires ISPF/DM)
- **ZSECURESFS** for installing in Shared File System directories with UI (requires ISPF/DM)
- **ZSECUREBATCH** for installing on minidisks without UI
- **ZSECUREBATCHSFS** for installing in Shared File System directories without UI

The PLAN option indicates that VMFINS will perform requisite checking, plan system resources, and provide an opportunity to override the defaults in the product parameter file.

You can override any of the following:

- the name of the product parameter file
- the default user IDs
- minidisk/directory definitions

```
VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS2601R Do you want to create an override for :PPF 5655RACE ZSECURE
            :PRODID 5655RACE%ZSECURE?
            Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5655RACE ZSECURE :PRODID
            5655RACE%ZSECURE
VMFREQ1909I 5655RACE PLANINFO created on your A-disk
VMFREQ2805I Product :PPF 5655RACE ZSECURE :PRODID 5655RACE%ZSECURE
            has passed requisite checking
VMFINT2603I Planning for the installation of product :PPF 5655RACE ZSECURE
            :PRODID 5655RACE%ZSECURE
VMFRMT2760I VMFRMT processing started
VMFRMT2760I VMFRMT processing completed successfully
VMFINS2760I VMFINS processing completed successfully
```

7 Review the install message log ($VMFINS $MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *z/VM: System Messages and Codes*, or use on-line HELP.

vmfview install

6.3 Allocate Resources for Installing IBM Security zSecure Manager for RACF z/VM

Use the planning information in the 5655RACE PLANINFO file, created in the **PLAN** step, to:

- Create the 5655RACE and ZSECURE user directories for minidisk install

  OR

- Create the 5655RACE and ZSECURE user directories for SFS install

6.3.1 Installing IBM Security zSecure Manager for RACF z/VM on Minidisk

1 Obtain the user directories from the 5655RACE PLANINFO file.

Note: The user directory entries are located in the resource section of the PLANINFO file, at the bottom; these entries will contain all of the links and privilege classes necessary for the 5655RACE and ZSECURE user IDs. Use

the directory entries found in PLANINFO as a model as input to your system directory.

2. Add the MDISK statements to the directory entry for 5655RACE. Use Figure 8 on page 10 to obtain the minidisk requirements.

3. Add the 5655RACE directory entry to the system directory. Change the password for 5655RACE from xxxxx to a valid password, in accordance with your security guidelines.

4. Add the MDISK statement to the directory entry for the SUBCONFIG IDs of ZSECURE. Use Figure 8 on page 10 to obtain the minidisk requirements.

5. Add the ZSECURE directory entry and one or more SUBCONFIG IDs to the system directory.

6. Place the new user directory on-line using the DIRECTXA command or an equivalent CP directory maintenance method, such as IBM® DIRMAINT™.

   Note: If you are running in an SSI cluster and you are using DIRECTXA then you need to run it on every member.

7. All minidisks for the 5655RACE and ZSECURE user IDs must be CMS formatted before installing IBM Security zSecure Manager for RACF z/VM.

link *userid devaddr1 devaddr2* **mr**
format *devaddr2 filemode*
1
label
rel *devaddr2* **(det**

The following example can be used as directory template. In an SSI, replace the asterisk in **BUILD ON * USING** with the name of the first member and uncomment additional **BUILD ON * USING** lines and **SUBCONFIG ZSECUR-*n*** directory entries for the additonal SSI members.

```
USER 5655RACE xxxxxxxx 48M 64M EG
  ACCOUNT xxxxxxxx
  MACHINE ESA
  IPL ZCMS
  CONSOLE 009 3215
  SPOOL 00C 2540 READER A
  SPOOL 00D 2540 PUNCH A
  SPOOL 00E 1403 A
  LINK MAINT 190 190 RR
  LINK MAINT 19D 19D RR
  LINK MAINT 19E 19E RR
  LINK MAINT 51D 51D MR
  LINK MAINT 5E5 5E5 RR
  LINK ZSECURE 200 200 MR
  LINK RACFVM 305 305 MR
  LINK RACMAINT 305 505 MR
  LINK ISPVM 192 292 RR
  MDISK 2B2 3390 startcyl  200 volid MR
  MDISK 2C2 3390 startcyl    2 volid MR
  MDISK 2D2 3390 startcyl   40 volid MR
  MDISK 2A6 3390 startcyl   10 volid MR
  MDISK 2A2 3390 startcyl   10 volid MR
  MDISK 100 3390 startcyl  150 volid MR
  MDISK 191 3390 startcyl   30 volid MR

IDENTITY ZSECURE NOLOG
  BUILD ON * USING SUBCONFIG ZSECUR-1
*   BUILD ON @@membername USING SUBCONFIG ZSECUR-2
*   BUILD ON @@membername USING SUBCONFIG ZSECUR-3
*   BUILD ON @@membername USING SUBCONFIG ZSECUR-4

SUBCONFIG ZSECUR-1
  MDISK 200 3390 startcyl  200 volid RR

* SUBCONFIG ZSECUR-2
*   MDISK 200 3390 startcyl  200 volid RR

* SUBCONFIG ZSECUR-3
*   MDISK 200 3390 startcyl  200 volid RR

* SUBCONFIG ZSECUR-4
*   MDISK 200 3390 startcyl  200 volid RR
```

6.3.2 Installing IBM Security zSecure Manager for RACF z/VM in SFS Directories

1 Obtain the user directory from the 5655RACE PLANINFO file.

Note: The user directory entry is located in the resource section of the PLANINFO file, at the bottom; these entries will contain all of the links and privilege classes necessary for the 5655RACE and ZSECURE user IDs. Use the directory entry found in PLANINFO as a model as input to your system directory.

2. Add the MDISK statement for ZSECURE build disk to the directory entry for the SUBCONFIG IDs of ZSECURE. Use Figure 8 on page 10 to obtain the minidisk requirements.

3. Add the ZSECURE directory entry and one or more SUBCONFIG IDs to the system directory.

4. Add the 5655RACE directory entry to the system directory. Change the password for 5655RACE from xxxxx to a valid password, in accordance with your security guidelines.

5. If you intend to use an SFS directory as the work space for the 5655RACE user ID, include the following IPL control statement in the 5655RACE directory entry:

   ```
   IPL CMS PARM FILEPOOL VMPSFS
   ```

   This will cause CMS to automatically access the 5655RACE's top directory as file mode A.

6. Place the new user directory on-line using the DIRECTXA command or an equivalent CP directory maintenance method, such as DIRMAINT.

   Note: If you are running in an SSI cluster and you are using DIRECTXA then you need to run it on every member.

7. An SFS installation will also require the following steps:

   a. Determine the number of 4K blocks that are required for SFS directories by adding up the 4K blocks required for each SFS directory you plan to use.

      If you intend to use all of the default IBM Security zSecure Manager for RACF z/VM SFS directories, the 4K block requirements for the directories are summarized in Figure 8 on page 10.

      This information will be used when enrolling the user ID, 5655RACE, in the VMPSFS filepool

   b. Enroll user 5655RACE in the VMPSFS filepool using the ENROLL USER command:

      ```
      ENROLL USER 5655RACE VMPSFS: (BLOCKS blocks
      ```

      where *blocks* is the number of 4K blocks that you calculated in the previous step for this userID only.

Notes:

1) This must be done from a user ID that is an administrator for VMPSFS: filepool.
2) This creates the user's top directory VMPSFS:5655RACE.

c Determine if there are enough blocks available in the filepool to install IBM Security zSecure Manager for RACF z/VM. This information can be obtained from the QUERY FILEPOOL STORGRP command. If the number of blocks free is smaller than the total 4K blocks needed to install IBM Security zSecure Manager for RACF z/VM you will need to add space to the filepool. See the *CMS File Pool Planning, Administration, and Operation* manual for information on adding space to a filepool.

d Create the necessary subdirectories listed in the 5655RACE PLANINFO file using the CREATE DIRECTORY command.

set filepool vmpsfs:
create directory *dirid*

dirid is the name of the SFS directory you are creating. An example of the create command is:

```
create directory vmpsfs:5655RACE.zsecure
create directory vmpsfs:5655RACE.zsecure.object
   :
```

If necessary, see the *CMS Command Reference* manual for more information about the CREATE DIRECTORY command.

A complete list of default IBM Security zSecure Manager for RACF z/VM SFS directories is provided in Figure 8 on page 10.

The following example can be used as directory template. In an SSI, replace the asterisk in **BUILD ON * USING** with the name of the first member and uncomment additional **BUILD ON * USING** lines and **SUBCONFIG ZSECUR-*n*** directory entries for the additonal SSI members.

```
USER 5655RACE xxxxxxxx 48M 64M EG
  ACCOUNT xxxxxxxx
  MACHINE ESA
  IPL ZCMS PARM FILEPOOL VMPSFS:
  CONSOLE 009 3215
  SPOOL 00C 2540 READER A
  SPOOL 00D 2540 PUNCH A
  SPOOL 00E 1403 A
  LINK MAINT 190 190 RR
  LINK MAINT 19D 19D RR
  LINK MAINT 19E 19E RR
  LINK MAINT 51D 51D MR
  LINK MAINT 5E5 5E5 RR
  LINK ZSECURE 200 200 MR
  LINK RACFVM 305 305 MR
  LINK RACMAINT 305 505 MR
  LINK ISPVM 192 292 RR

IDENTITY ZSECURE NOLOG
  BUILD ON * USING SUBCONFIG ZSECUR-1
*   BUILD ON @@membername USING SUBCONFIG ZSECUR-2
*   BUILD ON @@membername USING SUBCONFIG ZSECUR-3
*   BUILD ON @@membername USING SUBCONFIG ZSECUR-4

SUBCONFIG ZSECUR-1
  MDISK 200 3390 startcyl  200 volid RR

* SUBCONFIG ZSECUR-2
*   MDISK 200 3390 startcyl  200 volid RR

* SUBCONFIG ZSECUR-3
*   MDISK 200 3390 startcyl  200 volid RR

* SUBCONFIG ZSECUR-4
*   MDISK 200 3390 startcyl  200 volid RR
```

6.4 Install IBM Security zSecure Manager for RACF z/VM

The *ppfname* used throughout these installation instructions is **5655RACE**, which assumes you are using the PPF supplied by IBM for IBM Security zSecure Manager for RACF z/VM. If you have your own PPF override file for IBM Security zSecure Manager for RACF z/VM, you should use your file's *ppfname* instead of **5655RACE**. The *ppfname* you use should be used **throughout** the rest of this procedure.

1 Logon to the installation user ID **5655RACE**.

2 Create a PROFILE EXEC that will contain the ACCESS commands for MAINT 5E5 and 51D minidisks.

xedit profile exec a
===> input //**
===> input 'access 5e5 b'
===> input 'access 51d d'
===> input 'set PF12 retrieve'
===> file

If either 5E5 or 51D is in a shared file system (SFS) then substitute your SFS directory name in the access command.

3 Run the profile to access MAINT's minidisks.

profile

4 If the Software Inventory disk (51D) was accessed R/O (read only) then establish write access to the Software Inventory disk.

Note: If the MAINT 51D minidisk was accessed R/O, you will need to have the user who has it linked R/W link it as R/O. You then can issue the following commands to obtain R/W access to it.

link MAINT 51d 51d mr
access 51d d

5 Provide the installation user ID access to the code.

link MAINT*vrm* **500 500 rr**
access 500 c

6 Install IBM Security zSecure Manager for RACF z/VM.

Notes:

a. If you have already created a PPF override file, you should specify your override file name, in place of the default PPF name (5655RACE), after the **PPF** keyword for the following VMFINS command.

b. You may be prompted for additional information during VMFINS INSTALL processing depending on your installation environment. If you are unsure how to respond to a prompt, refer to the "Installing Products with VMFINS" and "Install Scenarios" chapters in the *VMSES/E Introduction and Reference* to decide how to proceed.

vmfins install ppf 5655RACE {ZSECURE | ZSECURESFS | ZSECUREBATCH | ZSECUREBATCHSFS}
(nomemo nolink env *envfilename*

envfilename is the file name of the product envelope file. The filetype must be SERVLINK.

Use

- **ZSECURE** for installing on minidisks with UI (requires ISPF/DM)
- **ZSECURESFS** for installing in Shared File System directories with UI (requires ISPF/DM)
- **ZSECUREBATCH** for installing on minidisks without UI
- **ZSECUREBATCHSFS** for installing in Shared File System directories without UI

The NOLINK option indicates that you don't want VMFINS to link to the appropriate minidisks, only access them if not accessed.

```
VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS2601R Do you want to create an override for :PPF 5655RACE ZSECURE
            :PRODID 5655RACE%ZSECURE?
            Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5655RACE ZSECURE :PRODID
            5655RACE%ZSECURE
VMFREQ2805I Product :PPF 5655RACE ZSECURE :PRODID 5655RACE%ZSECURE
            has passed requisite checking
VMFINT2603I Installing product :PPF 5655RACE ZSECURE :PRODID
            5655RACE%ZSECURE
VMFSET2760I VMFSETUP processing started for 5655RACE ZSECURE
VMFUTL2205I Minidisk|Directory Assignments:
            String    Mode  Stat  Vdev  Label/Directory
VMFUTL2205I LOCALSAM  E      R/W  2C2   ZSC2C2
VMFUTL2205I APPLY     F      R/W  2A6   ZSC2A6
VMFUTL2205I           G      R/W  2A2   ZSC2A2
VMFUTL2205I DELTA     H      R/W  2D2   ZSC2D2
VMFUTL2205I BUILD0    I      R/W  100   ZSC100
VMFUTL2205I BUILD2    J      R/W  505   RAC505
VMFUTL2205I BASE1     K      R/W  2B2   ZSC2B2
VMFUTL2205I SYSTEM    L      R/O  292   ISP192
VMFUTL2205I --------  A      R/W  191   ZSC191
VMFUTL2205I --------  B      R/O  5E5   MNT5E5
VMFUTL2205I --------  C      R/W  200   ZSC200
VMFUTL2205I --------  D      R/W  51D   MNT51D
VMFUTL2205I --------  S      R/O  190   MNT190
VMFUTL2205I --------  Y/S    R/O  19E   MNT19E
VMFSET2760I VMFSETUP processing completed successfully
VMFREC2760I VMFREC processing started
VMFREC1852I Volume 1 of 1 of INS ENVELOPE 2200
VMFREC1851I (1 of 6) VMFRCAXL processing AXLIST
VMFRCX2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (2 of 6) VMFRCPTF processing PARTLST
VMFRCP2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (3 of 6) VMFRCCOM processing DELTA
VMFRCC2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (4 of 6) VMFRCALL processing APPLY
VMFRCA2159I Loading part(s) to APPLY 2A6 (F)
VMFRCA2159I Loaded 2 part(s) to APPLY 2A6 (F)
VMFREC1851I (5 of 6) VMFRCALL processing BASE
VMFRCA2159I Loading part(s) to BASE1 2B2 (K)
VMFRCA2159I Loaded 8035 part(s) to BASE1 2B2 (K)
VMFREC1851I (6 of 6) VMFRCALL processing BUILD
VMFRCA2159I Loading part(s) to BUILD0 100 (I)
VMFRCA2159I Loaded 7480 part(s) to BUILD0 100 (I)
VMFREC2760I VMFREC processing completed successfully
VMFINT2603I Product installed
VMFINS2760I VMFINS processing completed successfully
```

7 Review the install message log ($VMFINS $MSGLOG). If necessary, correct any problems before going on. For information about handling specific error

messages, see the appropriate *z/VM: System Messages and Codes*, or use on-line HELP.

vmfview install

6.4.1 Update Build Status Table for IBM Security zSecure Manager for RACF z/VM

1 Update the VM SYSBLDS software inventory file for IBM Security zSecure Manager for RACF z/VM.

vmfins build ppf 5655RACE {ZSECURE | ZSECURESFS | ZSECUREBATCH} (all nolink

Use

- **ZSECURE** for installing on minidisks with UI (requires ISPF/DM)
- **ZSECURESFS** for installing in Shared File System directories with UI (requires ISPF/DM)
- **ZSECUREBATCH** for installing on minidisks without UI
- **ZSECUREBATCHSFS** for installing in Shared File System directories without UI

The SERVICED option will build any parts that were not built on the installation tape (if any) and update the Software Inventory build status table showing that the product 5655RACE has been built.

2 Review the install message log ($VMFINS $MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *z/VM: System Messages and Codes,* or use on-line HELP.

vmfview install

Note: If your software inventory disk (51D) is not owned by the MAINT user ID then make sure the VMSESE PROFILE reflects the correct owning user ID.

1 Review the Build message log ($VMFBLD $MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *z/VM: System Messages and Codes,* or use on-line HELP.

vmfview build

6.5 Place IBM Security zSecure Manager for RACF z/VM Into Production

6.5.1 Copy IBM Security zSecure Manager for RACF z/VM Files Into Production Minidisk

1 Logon to the installation user ID 5655RACE and move the IBM Security zSecure Manager for RACF z/VM executables to the production disk.

link 5655RACE 100 100 rr
link ZSECURE 200 200 mr
access 100 e
access 200 f
vmfcopy * * e = = f (prodid 5655RACE%ZSECURE olddate replace

The VMFCOPY command will update the VMSES PARTCAT file on the 200 disk.

2 If you are installing IBM Security zSecure Manager for RACF z/VM in a multi-member SSI cluster, repeat from step 1 for each member before moving to 6.5.2, “Update the Inventories for z/VM 6.2 or higher.”

6.5.2 Update the Inventories for z/VM 6.2 or higher

1 Log on to MAINT*vrm*

2 Add IBM Security zSecure Manager for RACF z/VM into the VM SYSSUF inventory table.

vmfsuftb

3 Add IBM Security zSecure Manager for RACF z/VM into the VM SYSPINV inventory table.

If you are installing IBM Security zSecure Manager for RACF z/VM on a single system, enter the following command:

vmfupdat syspinv prod 5655RACE <*systemid*>

Where *systemid* is the name of the system you installed on to (system name can be found in the lower right hand corner of the terminal screen).

If you are installing IBM Security zSecure Manager for RACF z/VM on a member of am SSI cluster, enter the following command:

vmfupdat syspinv prod 5655RACE <*systemid1***>**
... <*systemidN***>**

Where *systemid1* to *systemidN* are the names of the SSI cluster members you installed IBM Security zSecure Manager for RACF z/VM on.

4 Process any outstanding requests

Clear up any outstanding items from SERVICE $PRODS and place into production.

service zsecure build
put2prod

6.6 Post-Installation Considerations

Now that the IBM Security zSecure Manager for RACF z/VM has been installed, you should use the IBM Security zSecure Manager for RACF z/VM Installation and Deployment Guide (SC27-2782-00) publication to configure it for use.

IBM Security zSecure Manager for RACF z/VM is now installed and built on your system.

7.0 Service Instructions

This section of the Program Directory contains the procedure to install CORrective service to IBM Security zSecure Manager for RACF z/VM. VMSES/E is used to install service for IBM Security zSecure Manager for RACF z/VM.

To become more familiar with service using VMSES/E, you should read the introductory chapters in the *VMSES/E Introduction and Reference*. This manual also contains the command syntax for the VMSES/E commands listed in the procedure.

Note: Each step of the service instructions must be followed. Do not skip any step unless directed to do so. All instructions showing accessing of disks assume the use of default minidisk addresses. If different minidisk addresses are used, or if using a shared file system, change the instructions appropriately.

7.1 VMSES/E Service Process Overview

The following is a brief description of the main steps in servicing IBM Security zSecure Manager for RACF z/VM using VMSES/E.

- Setup Environment

  Access the software inventory disk. Use VMFSETUP command to establish the correct minidisk access order.

- Merge Service

  Use the VMFMRDSK command to clear the alternate apply disk before receiving new service. This allows you to remove the new service if a serious problem is found.

- Receive Service

  The VMFREC command receives service from the delivery media and places it on the Delta disk.

- Apply Service

  The VMFAPPLY command updates the version vector table (VVT), which identifies the service level of all the serviced parts. In addition, AUX files are generated from the VVT for parts that require them.

- Reapply Local Service (if applicable)

  All local service (mods) must be entered into the software inventory to allow VMSES/E to track the changes and build them into the system. Refer to Chapter 7 in the *Service Guide* for this procedure.

- Build New Levels

  The build task generates the serviced level of an object and places the new object on a test BUILD disk.

- Place the New Service into Production

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Once the service is satisfactorily tested it should be put into production by copying the new service to the production disk, re-saving the NSS (Named Saved System) or DCSS (Discontiguous Saved Segments), etc.

7.2 Servicing IBM Security zSecure Manager for RACF z/VM

Electronic Service (envelope file)

If you have received the service electronically or on CD-ROM, follow the appropriate instructions to retrieve and decompress the envelope files to your A-disk. The decompression is currently done by using the DETERSE MODULE (shipped with VMSES/E).

The documentation envelope and the service envelope files must have a file type of SERVLINK. Make note of the file names that you are using as you will need to enter them in place of the variable *envfilename* in the VMFREC commands that follow.

The preferred method for installing service to z/VM products is to use the automated SERVICE command. The SERVICE command automates issuing the VMFREC, VMFAPPLY and VMFBLD commands. It can be used for IBM Security zSecure Manager for RACF z/VM after the product information for IBM Security zSecure Manager for RACF z/VM has been added to the VMSES/E Service Update Facility software inventory table (VM SYSSUF).

To use the automated SERVICE command to install your CORrective PTF service follow the instructions in 7.2.1, “Automated Service Commands.”

7.2.1 Automated Service Commands

1 Logon to **MAINT***vrm*.

2 As a precaution, create a backup copy of the current IBM Security zSecure Manager for RACF z/VM disks or SFS directories. Save this copy of the IBM Security zSecure Manager for RACF z/VM until you have completed installing the service and you are confident that the service runs correctly.

3 If the Software Inventory disk (51D) was accessed R/O (read only) then establish write access to the Software Inventory disk.

Note: If the MAINT 51D minidisk was accessed R/O, you will need to have the user that has it accessed R/W link it R/O. You then can issue the following commands to obtain R/W access to it.

link MAINT 51d 51d mr **access 51d d**	The 51D minidisk is where the VMSES/E Software Inventory files and other product dependent files reside.

4 Add IBM Security zSecure Manager for RACF z/VM into the VM SYSSUF inventory table. This step only need to be done once. It can be skipped the next time you apply service.

vmfsuftb

5 Have the IBM Security zSecure Manager for RACF z/VM CORrective service envelope (SERVLINK) file and make sure it is available on the A-disk or any minidisk or SFS directory accessed as file mode C.

6 Receive, Apply and Build the service

service {5655RACE%zsecure | 5655RACE%zsecuresfs | 5655RACE%zsecurebatch | 5655RACE%zsecurebatchsfs} *envfilename*

envfilename is the file name of the COR (PTF) service envelope (SERVLINK) file.

Use

- **zsecure** if you installed the product on minidisks with UI
- **zsecuresfs** if you installed the product in Shared File System with UI
- **zsecurebatch** if you installed the product on minidisks without UI
- **zsecurebatchsfs** if you installed the product in Shared File System without UI

7 Check service messages log ($VMFSRV $MSGLOG) for warning and error messages. Take appropriate action based on any warning messages received. Correct all errors reported and restart by issuing the SERVICE command as displayed in message VMFSRV2310W.

vmfview service

8 Use the VMFUPDAT SYSMEMO command to review any additional memos that were received with the service.

vmfupdat sysmemo

9 Continue with "place into prod" 7.3, “Place the New IBM Security zSecure Manager for RACF z/VM Service into Production” to copy the new service files into production.

7.3 Place the New IBM Security zSecure Manager for RACF z/VM Service into Production

7.3.1 Copy the New IBM Security zSecure Manager for RACF z/VM Serviced Files Into Production

1. Logon to MAINT*vrm*

PUT2PROD

You have finished servicing IBM Security zSecure Manager for RACF z/VM.

Appendix A. Create Product Parameter File (PPF) Override

This section provides information to help you create a product parameter file (PPF) override. The example used in this section shows how to change the shared file system (SFS) file pool where IBM Security zSecure Manager for RACF z/VM files reside.

Note: Do **not** modify the product supplied 5655RACE $PPF or 5655RACE PPF files to change the file pool name or any other installation parameters. If the 5655RACE $PPF file is serviced, the existing $PPF file will be replaced, and any changes to that file will be lost; by creating your own $PPF override, your updates will be preserved.

The following process describes changing the default file pool name, VMSYS (z/VM 5.4 or 6.1) or VMPSFS (z/VM 6.2 or higher), to MYPOOL1:.

1 Create a new $PPF override file, or edit the override file created via the 'Make Override Panel' function.

xedit *overname* **$PPF** *fm***2**

overname is the PPF override file name (such as 'myzsecure') that you want to use.

fm is an appropriate file mode. If you create this file yourself, specify a file mode of A.

If you modify an existing override file, specify a file mode of A or D, based on where the file currently resides (A being the file mode of a R/W 191 minidisk, or equivalent; D, that of the MAINT 51D minidisk).

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2 Create (or modify as required) the Variable Declarations (:DCL.) section for the zsecuresfs override area, so that it resembles the :DCL. section shown below. This override will be used for the installation of IBM Security zSecure Manager for RACF z/VM. Modifications needed are denoted in **bold** print.

```
:OVERLST. ZSECURESFS
*
* ================================================================== *
* Override Section for Initial Installation (Using SFS Directories)   *
* ================================================================== *
:ZSECURESFS. ZSECURESFS 5655RACE
:DCL. REPLACE
&191     DIR MYPOOL1:5655RACE.
&SAMPZ   DIR MYPOOL1:5655RACE.ZSECURE.LOCALSAM
&DELTZ   DIR MYPOOL1:5655RACE.ZSECURE.DELTA
&APPLX   DIR MYPOOL1:5655RACE.ZSECURE.APPLYALT
&APPLZ   DIR MYPOOL1:5655RACE.ZSECURE.APPLYPROD
&BLD0Z   DIR MYPOOL1:5655RACE.ZSECURE.BUILDT
&BAS1Z   DIR MYPOOL1:5655RACE.ZSECURE.OBJECT
&ZSECID1 USER  5655RACE
:EDCL.
:END.
*
```

(This override will replace the :DCL. section of the zsecuresfs override area of the 5655RACE $PPF file.)

3 If your $PPF override file was created at file mode A, copy it to file mode D — the Software Inventory minidisk (MAINT 51D). Then erase it from file mode A.

file
copyfile *overname* **$PPF** *fm* **= = d (olddate**
erase *overname* **$PPF** *fm*

4 Compile your changes to create the usable *overname* PPF file.

vmfppf *overname* **ZSECURESFS** where *overname* is the file name of your $PPF override file.

Now that the *overname* PPF file has been created, you should specify *overname* instead of 5655RACE as the PPF name to be used for those VMSES/E commands that require a PPF name.

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Reader's Comments

IBM Security zSecure Manager for RACF z/VM Version 2 Release 5.1

You may use this form to comment about this document, its organization, or subject matter. Please understand that your feedback is of importance to IBM, but IBM makes no promises to always provide a response to your feedback.

For each of the topics below please indicate your satisfaction level by circling your choice from the rating scale. If a statement does not apply, please circle N.

RATING SCALE

very satisfied	←		→	very dissatisfied	not applicable
1	2	3	4	5	N

	Satisfaction					
Ease of product installation	1	2	3	4	5	N
Time required to install the product	1	2	3	4	5	N
Contents of program directory	1	2	3	4	5	N
Readability and organization of program directory tasks	1	2	3	4	5	N
Necessity of all installation tasks	1	2	3	4	5	N
Accuracy of the definition of the installation tasks	1	2	3	4	5	N
Technical level of the installation tasks	1	2	3	4	5	N
Installation verification procedure	1	2	3	4	5	N
Ease of customizing the product	1	2	3	4	5	N
Ease of migrating the product from a previous release	1	2	3	4	5	N
Ease of putting the system into production after installation	1	2	3	4	5	N
Ease of installing service	1	2	3	4	5	N

- Did you order this product as an independent product or as part of a package?
  - □ Independent
  - □ Package

    What type of package was ordered?

    - □ System Delivery Offering (SDO)
    - □ Other - Please specify type: _____

- Is this the first time your organization has installed this product?
  - □ Yes
  - □ No
- Were the people who did the installation experienced with the installation of VM products using VMSES/E?
  - □ Yes

    How many years of experience do they have? _____
  - □ No
- How long did it take to install this product? _____
- If you have any comments to make about your ratings above, or any other aspect of the product installation, please list them below:

  _____

  _____

  _____

  _____

  _____

  _____

  _____

  _____

Please provide the following contact information:

_____
Name and Job Title

_____
Organization

_____

_____
Address

_____
Telephone

Thank you for your participation.

Please send the completed form to the following address, or give to your IBM representative who will forward it to the IBM Security zSecure Manager for RACF z/VM Development group:

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