



**Program Directory for  
IBM Security zSecure Admin RACF-Offline**

V2.2.0

Program Number 5655-N16

FMID HB8R22F

for Use with  
z/OS

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GI13-2278-02

**Note**

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 21.

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# Contents

<b>Release information</b> . . . . .	iv
<b>1.0 Introduction</b> . . . . .	1
1.1 zSecure Admin RACF-Offline Description . . . . .	2
1.2 zSecure Admin RACF-Offline FMIDs . . . . .	2
<b>2.0 Program Materials</b> . . . . .	3
2.1 Basic Machine-Readable Material . . . . .	3
2.2 Optional Machine-Readable Material . . . . .	3
2.3 Program Publications . . . . .	3
2.4 Program Source Materials . . . . .	4
2.5 Publications Useful During Installation . . . . .	4
<b>3.0 Program Support</b> . . . . .	5
3.1 Program Services . . . . .	5
3.2 Preventive Service Planning . . . . .	5
3.3 Statement of Support Procedures . . . . .	6
<b>4.0 Program and Service Level Information</b> . . . . .	7
4.1 Program Level Information . . . . .	7
4.2 Service Level Information . . . . .	7
<b>5.0 Installation Requirements and Considerations</b> . . . . .	8
5.1 Driving System Requirements . . . . .	8
5.1.1 Machine Requirements . . . . .	8
5.1.2 Programming Requirements . . . . .	8
5.2 Target System Requirements . . . . .	9
5.2.1 Machine Requirements . . . . .	9
5.2.2 Programming Requirements . . . . .	9
5.2.2.1 Installation Requisites . . . . .	9
5.2.2.2 Operational Requisites . . . . .	10
5.2.2.3 Toleration/Coexistence Requisites . . . . .	11
5.2.2.4 Incompatibility (Negative) Requisites . . . . .	11
5.2.3 DASD Storage Requirements . . . . .	11
5.3 FMIDs Deleted . . . . .	13
5.4 Special Considerations . . . . .	13
<b>6.0 Installation Instructions</b> . . . . .	14
6.1 Installing zSecure Admin RACF-Offline . . . . .	14
6.1.1 SMP/E Considerations for Installing zSecure Admin RACF-Offline . . . . .	14
6.1.2 SMP/E Environment . . . . .	14
6.1.3 SMP/E Options Subentry Values . . . . .	14

6.1.4	Sample Jobs	15
6.1.5	Perform SMP/E RECEIVE	16
6.1.6	Allocate SMP/E Target and Distribution Libraries	16
6.1.7	Create DDDEF Entries	16
6.1.8	Perform SMP/E APPLY	17
6.1.9	Perform SMP/E ACCEPT	19
6.1.10	Run REPORT CROSSZONE	19
6.2	Activating zSecure Admin RACF-Offline	20
<b>7.0</b>	<b>Notices</b>	<b>21</b>
7.1	Trademarks	22
	<b>Contacting IBM Software Support</b>	<b>23</b>

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## Figures

1.	Basic Material: Licensed Publications	3
2.	Basic Material: Unlicensed	4
3.	Publications Useful During Installation	4
4.	PSP Upgrade and Subset ID	5
5.	Component IDs	6
6.	Driving System Software Requirements	9
7.	Target System Mandatory Installation Requisites	9
8.	Target System Mandatory Operational Requisites	10
9.	Total DASD Space Required by zSecure Admin RACF-Offline	11
10.	Storage Requirements for zSecure Admin RACF-Offline Target Libraries	13
11.	Storage Requirements for zSecure Admin RACF-Offline Distribution Libraries	13
12.	SMP/E Options Subentry Values	14
13.	Sample Installation Jobs	15

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## Release information

The Security zSecure Release Information topics include details on new features and enhancements, incompatibility warnings, and documentation update information for your Security zSecure product. You can review the most current version of the release information from the following links:

- What's new: New feature and enhancements in zSecure 2.2.0.  
[http://www.ibm.com/support/knowledgecenter/SS2RWS\\_2.2.0/com.ibm.zsecure.doc\\_2.2.0/about\\_this\\_release/about\\_rel\\_whats\\_new.html](http://www.ibm.com/support/knowledgecenter/SS2RWS_2.2.0/com.ibm.zsecure.doc_2.2.0/about_this_release/about_rel_whats_new.html)
- Release notes: Information you need before installing zSecure 2.2.0, such as system requirements, incompatibility warnings, and known problems.  
[http://www.ibm.com/support/knowledgecenter/SS2RWS\\_2.2.0/com.ibm.zsecure.doc\\_2.2.0/about\\_this\\_release/releaseinfo\\_relnotes.html](http://www.ibm.com/support/knowledgecenter/SS2RWS_2.2.0/com.ibm.zsecure.doc_2.2.0/about_this_release/releaseinfo_relnotes.html)



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## 1.0 Introduction

This program directory is intended for system programmers who are responsible for program installation and maintenance. It contains information about the material and procedures associated with the installation of IBM Security zSecure Admin RACF-Offline. This publication refers to IBM Security zSecure Admin RACF-Offline as zSecure Admin RACF-Offline.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic program materials and documentation for zSecure Admin RACF-Offline.
- 3.0, “Program Support” on page 5 describes the IBM support available for zSecure Admin RACF-Offline.
- 4.0, “Program and Service Level Information” on page 7 lists the APARs (program level) and PTFs (service level) that have been incorporated into zSecure Admin RACF-Offline.
- 5.0, “Installation Requirements and Considerations” on page 8 identifies the resources and considerations that are required for installing and using zSecure Admin RACF-Offline.
- 6.0, “Installation Instructions” on page 14 provides detailed installation instructions for zSecure Admin RACF-Offline. It also describes the procedures for activating the functions of zSecure Admin RACF-Offline, or refers to appropriate publications.

Before installing zSecure Admin RACF-Offline, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that are supplied with this program in softcopy format and this program directory; then keep them for future reference. Section 3.2, “Preventive Service Planning” on page 5 tells you how to find any updates to the information and procedures in this program directory.

zSecure Admin RACF-Offline is supplied in a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3). The program directory that is provided in softcopy format on the CBPDO tape is identical to the hardcopy format if one was included with your order. All service and HOLDDATA for zSecure Admin RACF-Offline are included on the CBPDO tape.

Do not use this program directory if you install zSecure Admin RACF-Offline with a SystemPac or ServerPac. When you use one of those offerings, use the jobs and documentation supplied with the offering. The offering will point you to specific sections of this program directory as needed.

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## 1.1 zSecure Admin RACF-Offline Description

The IBM Security zSecure Admin RACF-Offline component of Security zSecure Admin provides the possibility to issue most RACF commands against an inactive RACF database. The use of an Offline RACF database allows testing commands before actually implementing them on an Active system. Thus there is no impact of the tests on any other production application, and also no need for a dedicated LPAR just for this type of tests. Sample applications include merging RACF databases from multiple systems, and large reorganization or cleanup of profiles.

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## 1.2 zSecure Admin RACF-Offline FMIDs

zSecure Admin RACF-Offline consists of the following FMIDs:

HB8R22F



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## 2.0 Program Materials

An IBM program is identified by a program number. The program number for zSecure Admin RACF-Offline is 5655-N16.

Basic Machine-Readable Materials are materials that are supplied under the base license and are required for the use of the product.

The program announcement material describes the features supported by zSecure Admin RACF-Offline. Ask your IBM representative for this information if you have not already received a copy.

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### 2.1 Basic Machine-Readable Material

The distribution medium for this program is physical media or downloadable files. This program is in SMP/E RELFILE format and is installed by using SMP/E. See 6.0, "Installation Instructions" on page 14 for more information about how to install the program.

You can find information about the physical media for the basic machine-readable materials for zSecure Admin RACF-Offline in the *CBPDO Memo To Users Extension*.

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### 2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for zSecure Admin RACF-Offline.

The distribution medium for this program is physical media or downloadable files.

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### 2.3 Program Publications

The following sections identify the basic publications for zSecure Admin RACF-Offline.

Figure 1 identifies the basic licensed program publications for zSecure Admin RACF-Offline.

<b>Publication Title</b>	<b>Form Number</b>
IBM Security zSecure Admin and Audit for RACF User Reference Manual 2.2.0	LC27-5639

Figure 2 on page 4 identifies the basic unlicensed publications for zSecure Admin RACF-Offline. Publications can be accessed at the IBM Publications Center website at <http://www.ibm.com/shop/publications/order>.

*Figure 2. Basic Material: Unlicensed*

<b>Publication Title</b>	<b>Form Number</b>
IBM Security zSecure Suite: CARLa driven components, Installation and Deployment Guide Version 2.2.0	SC27-5638
IBM Security zSecure Suite: Messages Guide Version 2.2.0	SC27-5643

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## 2.4 Program Source Materials

No program source materials or viewable program listings are provided for zSecure Admin RACF-Offline.

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## 2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 3 during the installation of zSecure Admin RACF-Offline.

*Figure 3. Publications Useful During Installation*

<b>Publication Title</b>	<b>Form Number</b>
<i>IBM SMP/E for z/OS User's Guide</i>	SA22-7773
<i>IBM SMP/E for z/OS Commands</i>	SA22-7771
<i>IBM SMP/E for z/OS Reference</i>	SA22-7772
<i>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</i>	GA22-7770
<i>Security Server RACF Security Administrator's Guide</i>	SA22-7683
<i>Security Server RACF Command Language Reference</i>	SA22-7687

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## 3.0 Program Support

This section describes the IBM support available for zSecure Admin RACF-Offline.

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### 3.1 Program Services

Contact your IBM representative for specific information about available program services.

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### 3.2 Preventive Service Planning

Before you install zSecure Admin RACF-Offline, make sure that you have reviewed the current Preventive Service Planning (PSP) information. Review the PSP Bucket for General Information, Installation Documentation, and the Cross Product Dependencies sections. For the Recommended Service section, instead of reviewing the PSP Bucket, it is recommended you use the IBM.ProductInstall-RequiredService fix category in SMP/E to ensure you have all the recommended service installed. Use the **FIXCAT(IBM.ProductInstall-RequiredService)** operand on the **APPLY CHECK** command. See 6.1.8, “Perform SMP/E APPLY” on page 17 for a sample APPLY command

If you obtained zSecure Admin RACF-Offline as part of a CBPDO, HOLDDATA is included.

If the CBPDO for zSecure Admin RACF-Offline is older than two weeks by the time you install the product materials, you can obtain the latest PSP Bucket information by going to the following website:

<http://www14.software.ibm.com/webapp/set2/psearch/search?domain=psp>

You can also use S/390 SoftwareXcel or contact the IBM Support Center to obtain the latest PSP Bucket information.

For program support, access the Software Support Website at <http://www.ibm.com/software/support/>.

PSP Buckets are identified by UPGRADEs, which specify product levels; and SUBSETs, which specify the FMIDs for a product level. The UPGRADE and SUBSET values for zSecure Admin RACF-Offline are included in Figure 4.

UPGRADE	SUBSET	Description
SECZSCADM220	HB8R22F	Security zSecure Admin RACF-Offline

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### 3.3 Statement of Support Procedures

Report any problems which you feel might be an error in the product materials to your IBM Support Center. You may be asked to gather and submit additional diagnostics to assist the IBM Support Center in their analysis.

Figure 5 on page 6 identifies the component IDs (COMPID) for zSecure Admin RACF-Offline.

<i>Figure 5. Component IDs</i>			
<b>FMID</b>	<b>COMPID</b>	<b>Component Name</b>	<b>RETAIN Release</b>
HB8R22F	5655T0100	Security zSecure Admin RACF-Offline	22F

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## 4.0 Program and Service Level Information

This section identifies the program and relevant service levels of zSecure Admin RACF-Offline. The program level refers to the APAR fixes that have been incorporated into the program. The service level refers to the PTFs that have been incorporated into the program.

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### 4.1 Program Level Information

No APARs have been incorporated into zSecure Admin RACF-Offline.

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### 4.2 Service Level Information

No PTFs against this release of zSecure Admin RACF-Offline have been incorporated into the product package.

Frequently check the zSecure Admin RACF-Offline PSP Bucket for HIPER and SPECIAL attention PTFs against all FMIDs that you must install. You can also receive the latest HOLDDATA, then add the **FIXCAT(IBM.PRODUCTINSTALL-REQUIRESERVICE)** operand on your APPLY CHECK command. This will allow you to review the recommended and critical service that should be installed with your FMIDs.

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## 5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating zSecure Admin RACF-Offline. The following terminology is used:

- *Driving system*: the system on which SMP/E is executed to install the program.  
The program might have specific operating system or product level requirements for using processes, such as binder or assembly utilities during the installation.
- *Target system*: the system on which the program is configured and run.  
The program might have specific product level requirements, such as needing access to the library of another product for link-edits. These requirements, either mandatory or optional, might directly affect the element during the installation or in its basic or enhanced operation.

In many cases, you can use a system as both a driving system and a target system. However, you can make a separate IPL-able clone of the running system to use as a target system. The clone must include copies of all system libraries that SMP/E updates, copies of the SMP/E CSI data sets that describe the system libraries, and your PARMLIB and PROCLIB.

Use separate driving and target systems in the following situations:

- When you install a new level of a product that is already installed, the new level of the product will replace the old one. By installing the new level onto a separate target system, you can test the new level and keep the old one in production at the same time.
- When you install a product that shares libraries or load modules with other products, the installation can disrupt the other products. By installing the product onto a separate target system, you can assess these impacts without disrupting your production system.

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### 5.1 Driving System Requirements

This section describes the environment of the driving system required to install zSecure Admin RACF-Offline.

#### 5.1.1 Machine Requirements

The driving system can run in any hardware environment that supports the required software.

#### 5.1.2 Programming Requirements

*Figure 6. Driving System Software Requirements*

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
Any <b>one</b> of the following:				
5694-A01	z/OS	V01.12.00 or later	N/A	No
5650-ZOS	z/OS	V02.01.00 or later	N/A	No

**Note:** z/OS 1.12 End Of Service (EOS) occurred on September 30, 2014. If you report a problem while running on a platform that is out of service, support options might be limited. We recommend that you upgrade to at least z/OS 2.1.

## 5.2 Target System Requirements

This section describes the environment of the target system required to install and use zSecure Admin RACF-Offline.

zSecure Admin RACF-Offline installs in the z/OS (Z038) SREL.

### 5.2.1 Machine Requirements

The target system can run in any hardware environment that supports the required software.

### 5.2.2 Programming Requirements

#### 5.2.2.1 Installation Requisites

Installation requisites identify products that are required and *must* be present on the system or products that are not required but *should* be present on the system for the successful installation of this product.

Mandatory installation requisites identify products that are required on the system for the successful installation of this product. These products are specified as PREs or REQs.

*Figure 7 (Page 1 of 2). Target System Mandatory Installation Requisites*

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
5694-A01	z/OS	V01.12.00 or later	N/A	No

Figure 7 (Page 2 of 2). Target System Mandatory Installation Requisites

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
5694-A01	z/OS Security Server	V01.12.00 or later	N/A	No
5650-ZOS	z/OS	V02.01.00 or later	N/A	No
5650-ZOS	z/OS Security Server	V02.01.00 or later	N/A	No

**Note:** z/OS 1.12 End Of Service (EOS) occurred on September 30, 2014. If you report a problem while running on a platform that is out of service, support options might be limited. We recommend that you upgrade to at least z/OS 2.1.

Conditional installation requisites identify products that are *not* required for successful installation of this product but can resolve such things as certain warning messages at installation time. These products are specified as IF REQs.

zSecure Admin RACF-Offline has no conditional installation requisites.

### 5.2.2.2 Operational Requisites

Operational requisites are products that are required and *must* be present on the system or products that are not required but *should* be present on the system for this product to operate all or part of its functions.

Mandatory operational requisites identify products that are required for this product to operate its basic functions. These products are specified as PREs or REQs.

Figure 8. Target System Mandatory Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level
5694-A01	z/OS Version 1.12 or later
5694-A01	z/OS Security Server Version 1.12 or later
5650-ZOS	z/OS Version 2.1.0 or later
5650-ZOS	z/OS Security Server Version 2.1.0 or later
5655-N16	IBM Security zSecure Admin Version 2.2.0 (HCKR220)

**Note:** z/OS 1.12 End Of Service (EOS) occurred on September 30, 2014. If you report a problem while running on a platform that is out of service, support options might be limited. We recommend that you upgrade to at least z/OS 2.1.



Conditional operational requisites identify products that are *not* required for this product to operate its basic functions but are required at run time for this product to operate specific functions. These products are specified as IF REQs.

zSecure Admin RACF-Offline has no conditional operational requisites.

### 5.2.2.3 Toleration/Coexistence Requisites

Toleration/coexistence requisites identify products that must be present on sharing systems. These systems can be other systems in a multisystem environment (not necessarily sysplex), a shared DASD environment (such as test and production), or systems that reuse the same DASD environment at different time intervals.

zSecure Admin RACF-Offline has no toleration/coexistence requisites.

### 5.2.2.4 Incompatibility (Negative) Requisites

Negative requisites identify products that must *not* be installed on the same system as this product.

zSecure Admin RACF-Offline has no negative requisites.

## 5.2.3 DASD Storage Requirements

zSecure Admin RACF-Offline libraries can reside on all supported DASD types.

Figure 9 lists the total space that is required for each type of library.

Library Type	Total Space Required in 3390 Trks
Target	43
Distribution	11

#### Notes:

1. For non-RECFM U data sets, IBM recommends using system-determined block sizes for efficient DASD utilization. For RECFM U data sets, IBM recommends using a block size of 32760, which is most efficient from the performance and DASD utilization perspective.

2. Abbreviations used for data set types are shown as follows.

**U** Unique data set, allocated by this product and used by only this product. This table provides all the required information to determine the correct storage for this data set. You do not need to refer to other tables or program directories for the data set size.

- S** Shared data set, allocated by this product and used by this product and other products. To determine the correct storage needed for this data set, add the storage size given in this table to those given in other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.
- E** Existing shared data set, used by this product and other products. This data set is *not* allocated by this product. To determine the correct storage for this data set, add the storage size given in this table to those given in other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.

If you currently have a previous release of this product installed in these libraries, the installation of this release will delete the old release and reclaim the space that was used by the old release and any service that had been installed. You can determine whether these libraries have enough space by deleting the old release with a dummy function, compressing the libraries, and comparing the space requirements with the free space in the libraries.

For more information about the names and sizes of the required data sets, see 6.1.6, “Allocate SMP/E Target and Distribution Libraries” on page 16.

3. Abbreviations used for the file system path type are as follows.

- N** New path, created by this product.
- X** Path created by this product, but might already exist from a previous release.
- P** Previously existing path, created by another product.

4. All target and distribution libraries listed have the following attributes:

- The default name of the data set can be changed.
- The default block size of the data set can be changed.
- The data set can be merged with another data set that has equivalent characteristics.
- The data set can be either a PDS or a PDSE.

5. All target libraries listed have the following attributes:

- These data sets can be SMS-managed, but they are not required to be SMS-managed.
- These data sets are not required to reside on the IPL volume.
- The values in the "Member Type" column are not necessarily the actual SMP/E element types that are identified in the SMPMCS.

6. All target libraries that are listed and contain load modules have the following attributes:

- These data sets can be in the LPA, but they are not required to be in the LPA.
- These data sets can be in the LNKLIST.
- These data sets must be APF-authorized.

The following figures describe the target and distribution libraries and file system paths required to install zSecure Admin RACF-Offline. The storage requirements of zSecure Admin RACF-Offline must be added to the storage required by other programs that have data in the same library or path.

**Note:** Use the data in these tables to determine which libraries can be merged into common data sets. In addition, since some ALIAS names may not be unique, ensure that no naming conflicts will be introduced before merging libraries.

Figure 10. Storage Requirements for zSecure Admin RACF-Offline Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SB8RSAMP	Sample	ANY	U	PDS	FB	80	3	5
SB8RLNK	LMOD	ANY	U	PDS	U	0	40	9

Figure 11. Storage Requirements for zSecure Admin RACF-Offline Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
AB8RSAMP	U	PDS	FB	80	3	5
AB8RLNK	U	PDS	U	0	8	9

### 5.3 FMIDs Deleted

Installing zSecure Admin RACF-Offline might result in the deletion of other FMIDs. To see which FMIDs will be deleted, examine the ++VER statement in the SMPMCS of the product.

If you do not want to delete these FMIDs at this time, install zSecure Admin RACF-Offline into separate SMP/E target and distribution zones.

**Note:** These FMIDs are not automatically deleted from the Global Zone. If you want to delete these FMIDs from the Global Zone, use the SMP/E REJECT NOFMID DELETEFMID command. See the SMP/E Commands book for details.

### 5.4 Special Considerations

zSecure Admin RACF-Offline has no special considerations for the target system.

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## 6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of zSecure Admin RACF-Offline.

Please note the following points:

- zSecure Admin RACF-Offline **must** be installed into the same SMP/E zone as IBM Security zSecure Admin (HCKR220). During the installation of the zSecure Admin RACF-Offline function, access to several MODs from existing distribution libraries (mainly IBM.ACKRLOAD) is required. Installing zSecure Admin RACF-Offline into its own SMP/E environment is not supported.
- You can use the sample jobs that are provided to perform part or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries that are required for SMP/E execution have been defined in appropriate zones.
- You can use the SMP/E dialogs instead of the sample jobs to accomplish the SMP/E installation steps.

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### 6.1 Installing zSecure Admin RACF-Offline

#### 6.1.1 SMP/E Considerations for Installing zSecure Admin RACF-Offline

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of zSecure Admin RACF-Offline.

#### 6.1.2 SMP/E Environment

zSecure Admin RACF-Offline **must** be installed into the same SMP/E zone as IBM Security zSecure Admin (HCKR220). During the installation of the zSecure Admin RACF-Offline function, access to several MODs from existing distribution libraries (mainly IBM.ACKRLOAD) is required. Installing zSecure Admin RACF-Offline into its own SMP/E environment is not supported.

#### 6.1.3 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 12. Using values lower than the recommended values can result in failures in the installation. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. See the SMP/E manuals for instructions on updating the global zone.

Figure 12 (Page 1 of 2). SMP/E Options Subentry Values

Subentry	Value	Comment
DSSPACE	20,5,20	This is the minimum. Any larger value is acceptable.

Figure 12 (Page 2 of 2). SMP/E Options Subentry Values

Subentry	Value	Comment
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

## 6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install zSecure Admin RACF-Offline.

Figure 13. Sample Installation Jobs

Job Name	Job Type	Description	RELFILE
B8RJALL	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HB8R22F.F2
B8RJDDD	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HB8R22F.F2
B8RJREC	RECEIVE	Sample RECEIVE job	IBM.HB8R22F.F2
B8RJAPP	APPLY	Sample APPLY job	IBM.HB8R22F.F2
B8RJACC	ACCEPT	Sample ACCEPT job	IBM.HB8R22F.F2

You can access the sample installation jobs by performing a SMP/E RECEIVE (refer to 6.1.5, “Perform SMP/E RECEIVE” on page 16) then copy the jobs from the RELFILES to a work data set for editing and submission. See Figure 13 to find the appropriate relfile data set.

You can also copy the sample installation jobs from the tape or product files by submitting the following job. Depending on your distribution medium, use either the //TAPEIN or the //FILEIN DD statement and comment out or delete the other statement. Before you submit the job, add a job card and change the lowercase parameters to uppercase values to meet the requirements of your site.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.HB8R22F.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(x,SL),
// DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.HB8R22F.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jc1-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// SPACE=(TRK,(3,1,2))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

See the following information to update the statements in the previous sample:

TAPEIN:

**tunit** is the unit value that matches the product package.

**volser** is the volume serial that matches the product package.

**x** is the tape file number that indicates the location of the data set name on the tape.

See the documentation that is provided by CBPDO for the location of IBM.fmid.Fy on the tape.

FILEIN:

**filevol** is the volume serial of the DASD device where the downloaded files reside.

OUT:

**jcl-library-name** is the name of the output data set where the sample jobs are stored.

**dasdvol** is the volume serial of the DASD device where the output data set resides.

SYSIN:

**xxxxIN** is either TAPEIN or FILEIN depending on your input DD statement.

## 6.1.5 Perform SMP/E RECEIVE

If you have obtained zSecure Admin RACF-Offline as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the zSecure Admin RACF-Offline FMIDs, service, and HOLDDATA that are included on the CBPDO package. For more information, see the documentation that is included in the CBPDO.

You can also choose to edit and submit sample job B8RJREC to perform the SMP/E RECEIVE for zSecure Admin RACF-Offline. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** This job should end with a return code 0.

## 6.1.6 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job B8RJALL to allocate the SMP/E target and distribution libraries for zSecure Admin RACF-Offline. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** This job should end with a return code 0.

## 6.1.7 Create DDDEF Entries

Edit and submit sample job B8RJDDD to create DDDEF entries for the SMP/E target and distribution libraries for zSecure Admin RACF-Offline. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** This job should end with a return code 0.

## 6.1.8 Perform SMP/E APPLY

1. Ensure that you have the latest HOLDDATA; then edit and submit sample job B8RJAPP to perform an SMP/E APPLY CHECK for zSecure Admin RACF-Offline. Consult the instructions in the sample job for more information.

The latest HOLDDATA is available through several different portals, including <http://service.software.ibm.com/holddata/390holddata.html>. The latest HOLDDATA may identify HIPER and FIXCAT APARs for the FMIDs you will be installing. An APPLY CHECK will help you determine if any HIPER or FIXCAT APARs are applicable to the FMIDs you are installing. If there are any applicable HIPER or FIXCAT APARs, the APPLY CHECK will also identify fixing PTFs that will resolve the APARs, if a fixing PTF is available.

You should install the FMIDs regardless of the status of unresolved HIPER or FIXCAT APARs. However, do not deploy the software until the unresolved HIPER and FIXCAT APARs have been analyzed to determine their applicability. That is, before deploying the software either ensure fixing PTFs are applied to resolve all HIPER or FIXCAT APARs, or ensure the problems reported by all HIPER or FIXCAT APARs are not applicable to your environment.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the PRE, ID, REQ, and IFREQ on the APPLY CHECK. The SMP/E root cause analysis identifies the cause only of *errors* and not of *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings, instead of errors).

Here are sample APPLY commands:

- a. To ensure that all recommended and critical service is installed with the FMIDs, receive the latest HOLDDATA and use the APPLY CHECK command as follows

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
GROUPEXTEND .
```

Some HIPER APARs might not have fixing PTFs available yet. You should analyze the symptom flags for the unresolved HIPER APARs to determine if the reported problem is applicable to your environment and if you should bypass the specific ERROR HOLDS in order to continue the installation of the FMIDs.

This method requires more initial research, but can provide resolution for all HIPERs that have fixing PTFs available and are not in a PE chain. Unresolved PEs or HIPERs might still exist and require the use of BYPASS.

- b. To install the FMIDs without regard for unresolved HIPER APARs, you can add the BYPASS(HOLDCLASS(HIPER)) operand to the APPLY CHECK command. This will allow you to install FMIDs even though one or more unresolved HIPER APARs exist. After the FMIDs are installed, use the SMP/E REPORT ERRSYSMODS command to identify unresolved HIPER APARs and any fixing PTFs.

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
GROUPEXTEND
BYPASS(HOLDCLASS(HIPER)) .
..any other parameters documented in the program directory
```

This method is the quicker, but requires subsequent review of the Exception SYSMOD report produced by the REPORT ERRSYSMODS command to investigate any unresolved HIPERs. If you have received the latest HOLDDATA, you can also choose to use the REPORT MISSINGFIX command and specify Fix Category IBM.ProductInstall-RequiredService to investigate missing recommended service.

If you bypass HOLDs during the installation of the FMIDs because fixing PTFs are not yet available, you can be notified when the fixing PTFs are available by using the APAR Status Tracking (AST) function of ServiceLink or the APAR Tracking function of ResourceLink.

2. After you take actions that are indicated by the APPLY CHECK, remove the CHECK operand and run the job again to perform the APPLY.

**Note:** The GROUPEXTEND operand indicates that SMP/E applies all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

**Expected Return Codes and Messages from APPLY CHECK:** You will receive a return code of 0 if this job runs correctly.

**Expected Return Codes and Messages from APPLY:** You will receive a return code of 0 if this job runs correctly.

After installing new functions, you should perform two operations:

1. Create a backup of the updated data sets, including any SMP/E data sets affected, in case something happens to the data sets during the next phase.
2. Do some testing before putting the new function into production.

After you are satisfied that an applied SYSMOD has performed reliably in your target system, you can install it in your distribution libraries using the ACCEPT process.

Another good practice is to accept most SYSMODs, particularly FMIDs, before performing another APPLY process. This provides you the ability to use the RESTORE process of SMP/E and to support the scenario where SMP/E needs to create a new load module from the distribution libraries during the APPLY process.



## 6.1.9 Perform SMP/E ACCEPT

Edit and submit sample job B8RJACC to perform an SMP/E ACCEPT CHECK for zSecure Admin RACF-Offline. Consult the instructions in the sample job for more information.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the PRE, ID, REQ, and IFREQ on the ACCEPT CHECK. The SMP/E root cause analysis identifies the cause of only *errors* but not *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings rather than errors).

Before you use SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. In this way, you can save the entries that are produced from JCLIN in the distribution zone whenever a SYSMOD that contains inline JCLIN is accepted. For more information about the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E Commands book for details.

After you take actions that are indicated by the ACCEPT CHECK, remove the CHECK operand and run the job again to perform the ACCEPT.

**Note:** The GROUPEXTEND operand indicates that SMP/E accepts all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

**Expected Return Codes and Messages from ACCEPT CHECK:** You will receive a return code of 0 if this job runs correctly.

If PTFs that contain replacement modules are accepted, SMP/E ACCEPT processing will link-edit or bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder might issue messages that indicate unresolved external references, which will result in a return code of 4 during the ACCEPT phase. You can ignore these messages, because the distribution libraries are not executable and the unresolved external references do not affect the executable system libraries.

**Expected Return Codes and Messages from ACCEPT:** This job might end with a return code 4.

## 6.1.10 Run REPORT CROSSZONE

The SMP/E REPORT CROSSZONE command identifies requisites for products that are installed in separate zones. This command also creates APPLY and ACCEPT commands in the SMPPUNCH data set. You can use the APPLY and ACCEPT commands to install those cross-zone requisites that the SMP/E REPORT CROSSZONE command identifies.

After you install zSecure Admin RACF-Offline, it is recommended that you run REPORT CROSSZONE against the new or updated target and distribution zones. REPORT CROSSZONE requires a global zone with ZONEINDEX entries that describe all the target and distribution libraries to be reported on.

For more information about REPORT CROSSZONE, see the SMP/E manuals.

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## 6.2 Activating zSecure Admin RACF-Offline

The publication *IBM Security zSecure Suite: CARLa driven components, Installation and Deployment Guide Version 2.2.0, SC27-5638* contains the necessary information to customize and use zSecure Admin RACF-Offline. These steps include

- Define SB8RLNK as APF Authorized
- Update the TSO authorized command table
- Optionally change the resource class used for the installation policy profiles.
- Define security profiles to control access to the zSecure Admin RACF-Offline functions.

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