



**Program Directory for
IBM File Export for z/OS**

V1.01.00

Program Number 5697-I12

FMID HAAA110

for Use with
z/OS

Document Date: December 2004

GI10-8527-00

Note!

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

A form for reader's comments appears at the back of this publication. When you send information to IBM, you grant IBM a nonexclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

© **Copyright International Business Machines Corporation 2004. All rights reserved.**

©**Rocket Software 2004.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Contents

1.0 Introduction	1
1.1 File Export for z/OS Description	1
1.2 File Export for z/OS FMIDs	2
2.0 Program Materials	3
2.1 Basic Machine-Readable Material	3
2.2 Optional Machine-Readable Material	4
2.3 Program Publications	4
2.3.1 Basic Program Publications	4
2.3.2 Optional Program Publications	5
2.4 Program Source Materials	5
2.5 Publications Useful During Installation	5
3.0 Program Support	6
3.1 Program Services	6
3.2 Preventive Service Planning	6
3.3 Statement of Support Procedures	7
4.0 Program and Service Level Information	8
4.1 Program Level Information	8
4.2 Service Level Information	8
5.0 Installation Requirements and Considerations	9
5.1 Driving System Requirements	9
5.1.1 Machine Requirements	9
5.1.2 Programming Requirements	9
5.2 Target System Requirements	10
5.2.1 Machine Requirements	10
5.2.2 Programming Requirements	10
5.2.2.1 Installation Requisites	10
5.2.2.2 Operational Requisites	11
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	14
5.4 Special Considerations	14
6.0 Installation Instructions	15
6.1 Installing File Export for z/OS	15
6.1.1 SMP/E Considerations for Installing File Export for z/OS	15
6.1.2 SMP/E Options Subentry Values	15
6.1.3 SMP/E CALLLIBS Processing	16

6.1.4	Sample Jobs	16
6.1.5	Allocate SMP/E CSI (Optional)	18
6.1.6	Initialize CSI zones (Optional)	18
6.1.7	Perform SMP/E RECEIVE	18
6.1.8	Allocate SMP/E Target and Distribution Libraries	18
6.1.9	Create DDDEF Entries	19
6.1.10	Perform SMP/E APPLY	19
6.1.11	Perform SMP/E ACCEPT	19
6.1.12	Run REPORT CROSSZONE	20
6.2	Activating File Export for z/OS	20
7.0	Notices	21
7.1	Trademarks	22
	Reader's Comments	23

Figures

1.	Program File Content	4
2.	Basic Material: Unlicensed Publications	4
3.	Basic Material: Other Unlicensed or Licensed Publications	5
4.	Publications Useful During Installation	5
5.	PSP Upgrade and Subset ID	6
6.	Component IDs	7
7.	Driving System Software Requirements	9
8.	Mandatory Installation Requisites	10
9.	Conditional Installation Requisites	10
10.	Total DASD Space Required by File Export for z/OS	12
11.	Storage Requirements for File Export for z/OS Target Libraries	13
12.	Storage Requirements for File Export for z/OS Distribution Libraries	13
13.	SMP/E Options Subentry Values	15
14.	Sample Installation Jobs	16

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 File Export for z/OS. This publication refers to IBM File Export for z/OS as File Export for z/OS.

The Program Directory contains the following sections:

- 2.0, "Program Materials" on page 3 identifies the basic and optional program materials and documentation for File Export for z/OS.
- 3.0, "Program Support" on page 6 describes the IBM support available for File Export for z/OS.
- 4.0, "Program and Service Level Information" on page 8 lists the APARs (program level) and PTFs (service level) incorporated into File Export for z/OS.
- 5.0, "Installation Requirements and Considerations" on page 9 identifies the resources and considerations required for installing and using File Export for z/OS.
- 6.0, "Installation Instructions" on page 15 provides detailed installation instructions for File Export for z/OS. It also describes the procedures for activating the functions of File Export for z/OS, or refers to appropriate publications.

Before installing File Export for z/OS, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that were supplied with this program in softcopy form as well as this Program Directory and then keep them for future reference. Section 3.2, "Preventive Service Planning" on page 6 tells you how to find any updates to the information and procedures in this Program Directory.

File Export for z/OS is supplied in a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3). The Program Directory is provided in softcopy form on the CBPDO tape which is identical to the hardcopy form provided with your order. Your CBPDO contains a softcopy preventive service planning (PSP) upgrade for this product. All service and HOLDDATA for File Export for z/OS are included on the CBPDO tape.

Do not use this Program Directory if you are installing File Export for z/OS with a SystemPac or ServerPac. When using these offerings, use the jobs and documentation supplied with the offering. This documentation may point you to specific sections of the Program Directory as required.

1.1 File Export for z/OS Description

IBM File Export for z/OS exports and copies data for application development and testing. The ISPF interface extracts "referentially-intact" sets of data, or individual tables and/or rows, into DB2LOAD-ready file format for copying to other systems. With IBM File Export for z/OS a user can,

- Copy selected source data quickly to test environments for faster development and testing
- Use DB2, IMS, VSAM and sequential data sources and targets
- Process relationships between tables that are defined using IBM File Export

- Exploit Application Defined Relationships between data objects in exporting data

Current applications (such as enterprise resource planning, customer relationship management, and e-commerce) rely upon highly structured data environments with complex data relationships. These offer optimal performance, but can also present significant challenges to the developer or database administrator supporting, modifying, or designing these or entirely new applications. File Export's robust support for highly selective data copying helps cut through the complexity normally associated with surgical problem resolution, populating test environments, or migrating applications to new or additional environments.

- Define application relationships between dissimilar file types
- Delete rows from target DB2 tables based on a key extracted from a DB2, IMS, VSAM or sequential object
- Protect sensitive data

1.2 File Export for z/OS FMIDs

File Export for z/OS consists of the following FMID:

HAAA110

2.0 Program Materials

An IBM program is identified by a program number. The program number for File Export for z/OS is 5697-I12.

An IBM program is identified by a program number and a feature number. The program number for File Export for z/OS is 5697-I12 and its feature number is 5802.

Basic Machine-Readable Materials are materials that are supplied under the base license and feature numbers, and are required for the use of the product. Optional Machine-Readable Materials are orderable under separate feature numbers, and are not required for the product to function.

The program announcement material describes the features supported by File Export for z/OS. Ask your IBM representative for this information if you have not already received a copy.

2.1 Basic Machine-Readable Material

The distribution medium for this program is magnetic tape or downloadable files. It is installed using SMP/E, and is in SMP/E RELFILE format. See 6.0, "Installation Instructions" on page 15 for more information about how to install the program.

Information about the physical tape for the Basic Machine-Readable Materials for File Export for z/OS can be found in the *CBPDO Memo To Users Extension*.

Non-CBPDO Customers

If you receive the product tape and program directory outside the CBPDO process, refer to 6.1.4, "Sample Jobs" on page 16 for details (media volser, file name, tape file number) and how to proceed.

You can refer to the *CBPDO Memo To Users Extension* to see where the files reside on the tape.

Notes:

1. The data set attributes in this table should be used in the JCL of jobs reading the data sets, but since the data sets are in IEBCOPY unloaded format, their actual attributes may be different.
2. If any RELFILES are identified as PDSEs, ensure that SMPTLIB data sets are allocated as PDSEs.

Figure 1. Program File Content

Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	6400
IBM.HAAA110.F1	PDS	FB	80	8800
IBM.HAAA110.F2	PDSE	U	0	6144
IBM.HAAA110.F3	PDS	FB	80	8800
IBM.HAAA110.F4	PDS	FB	80	8800
IBM.HAAA110.F5	PDS	FB	80	8800
IBM.HAAA110.F6	PDS	FB	80	8800
IBM.HAAA110.F7	PDS	FB	80	8800
IBM.HAAA110.F8	PDS	FB	80	8800
IBM.HAAA110.F9	PDS	FB	80	8800

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for File Export for z/OS.

2.3 Program Publications

The following sections identify the basic and optional publications for File Export for z/OS.

2.3.1 Basic Program Publications

Figure 2 identifies the basic unlicensed program publications for File Export for z/OS. One copy of each of these publications is included when you order the basic materials for File Export for z/OS. For additional copies, contact your IBM representative.

Figure 2. Basic Material: Unlicensed Publications

Publication Title	Form Number
File Export for z/OS for z/OS License Information	GC18-7709
Program Directory	GI10-8527-00

Figure 3 on page 5 identifies the basic unlicensed or licensed publications that are not available in hardcopy form, but are available through the internet or other media for File Export for z/OS.

<i>Figure 3. Basic Material: Other Unlicensed or Licensed Publications</i>		
Publication Title	Form Number	How Available
File Export for z/OS for z/OS User's Guide	SC18-9178	http://www.ibm.com/software/data/db2imstools/library.html
IBM File Export for z/OS for z/OS Reference Manual	SC31-6870	http://www.ibm.com/software/data/db2imstools/library.html
IBM File Export for z/OS for z/OS Messages and Codes	SC31-6871	http://www.ibm.com/software/data/db2imstools/library.html

Publications are available in PDF format on CD-ROM on the next release of software product libraries:

- *z/OS Software Products Collection, SK3T-4270*

2.3.2 Optional Program Publications

No optional publications are provided for File Export for z/OS.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for File Export for z/OS.

2.5 Publications Useful During Installation

The publications listed in Figure 4 may be useful during the installation of File Export for z/OS. To order copies, contact your IBM representative or visit the IBM Publications Center on the World Wide Web at: <http://www.ibm.com/shop/publications/order>

<i>Figure 4. Publications Useful During Installation</i>	
Publication Title	Form Number
<i>IBM SMP/E for z/OS and OS/390 User's Guide</i>	SA22-7773
<i>IBM SMP/E for z/OS and OS/390 Commands</i>	SA22-7771
<i>IBM SMP/E for z/OS and OS/390 Reference</i>	SA22-7772
<i>IBM SMP/E for z/OS and OS/390 Messages, Codes, and Diagnosis</i>	GA22-7770

3.0 Program Support

This section describes the IBM support available for File Export for z/OS.

3.1 Program Services

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

3.2 Preventive Service Planning

Before installing File Export for z/OS, you should review the current Preventive Service Planning (PSP) information. If you obtained File Export for z/OS as part of a CBPDO, there is HOLDDATA and PSP information included on the CBPDO.

If the CBPDO for File Export for z/OS is more than two weeks old when you install it, you should contact the IBM Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

For program support, access the Software Support web site at <http://www-3.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 File Export for z/OS are:

Figure 5. PSP Upgrade and Subset ID

UPGRADE	SUBSET	Description
5697112	HAAA110	File Export for z/OS

For additional Service related information, visit
<http://www.ibm.com/software/data/db2imstools/support.html>

3.3 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 provide the address to which any needed documentation can be sent.

Figure 6 identifies the component IDs (COMPID) for File Export for z/OS.

<i>Figure 6. Component IDs</i>			
FMID	COMPID	Component Name	RETAIN Release
HAAA110	569711200	File Export	110

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of File Export for z/OS. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs incorporated into the program.

4.1 Program Level Information

No APARs have been incorporated into File Export for z/OS.

4.2 Service Level Information

No PTFs against this release of File Export for z/OS have been incorporated into the product tape.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating File Export for z/OS. The following terminology is used:

- *Driving system*: the system used to install the program.
- *Target system*: the system on which the program is installed.

In many cases, the same system can be used as both a driving system and a target system. However, you may want to set up a clone of your system to use as a target system by making a separate IPL-able copy of the running system. The clone should 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.

Some cases where two systems should be used include the following:

- When installing a new level of a product that is already installed, the new product will delete the old one. By installing onto a separate target system, you can test the new product while still keeping the old one in production.
- When installing a product that shares libraries or load modules with other products, the installation can disrupt the other products. Installing onto a test system or clone will allow you to assess these impacts without disrupting your production system.

5.1 Driving System Requirements

This section describes the environment of the driving system required to install File Export for z/OS.

5.1.1 Machine Requirements

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

5.1.2 Programming Requirements

<i>Figure 7. Driving System Software Requirements</i>	
Program Number	Product Name and Minimum VRM/Service Level
Any one of the following:	
5694-A01	z/OS V1.04.0 or later
5655-G44	IBM SMP/E for z/OS and OS/390 V3.02.0 or later

5.2 Target System Requirements

This section describes the environment of the target system required to install and use File Export for z/OS.

File Export for z/OS 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: An installation requisite is defined as a product that is required and **must** be present or one that is not required but **should** be present on the system for the successful installation of this product.

A mandatory installation requisite identifies products that are required, without exception, or this product **will not install** on your system. This includes products specified as PREs or REQs.

Figure 8. Mandatory Installation Requisites

Program Number	Product Name and Minimum VRM/Service Level
Any one of the following:	
5655-J51	XML Toolkit for z/OS V1.06.00

A conditional installation requisite identifies products that are **not** required for successful install but may resolve such things as certain warning messages at installation time. They include products that are specified as IF REQs.

Figure 9 (Page 1 of 2). Conditional Installation Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
5655-F78	IMS Fast Path Basic Tools for z/OS V01.02.00 or higher	For Extracting IMS Fast-Path DEDB data
5697-E98	IBM DB2 Utilities Suite for z/OS	
Any one of the following:		
5645-DB2	DB2 V06.01.00	
5675-DB2	DB2 V07.01.00	
5625-DB2	DB2 V08.00.00	When V8 is operating in compatibility mode

Figure 9 (Page 2 of 2). Conditional Installation Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
Any one of the following:		
5655-B01	IMS Database Manager V07.01.00	
5655-C56	IMS Database Manager V08.01.00	
5655-J38	IMS Database Manager V09.01.00	

5.2.2.2 Operational Requisites: An operational requisite is defined as a product that is required and **must** be present or a product that is not required but **should** be present on the system in order for this product to operate all or some of its functions.

A mandatory operational requisite identifies products that are required, without exception, or this product **will not operate** its basic function unless the requisite is met. This includes products specified as PREs or REQs.

File Export for z/OS has no mandatory operational requisites.

A conditional operational requisite identifies products that are **not required** for the basic function but are needed at run time for this product to utilize specific functions. They may include products specified as IF REQs.

File Export for z/OS has no conditional operational requisites.

5.2.2.3 Toleration/Coexistence Requisites: A toleration/coexistence requisite is defined as a product which must be present on a sharing system. 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 at different time intervals.

File Export for z/OS has no toleration/coexistence requisites.

5.2.2.4 Incompatibility (Negative) Requisites: A negative requisite identifies products which must *not* be installed on the same system as this product.

File Export for z/OS has no negative requisites.

5.2.3 DASD Storage Requirements

File Export for z/OS libraries can reside on all supported DASD types.

Figure 10 lists the total space required for each type of library.

Figure 10. Total DASD Space Required by File Export for z/OS

Library Type	Total Space Required
Target	512 tracks
Distribution	558 tracks

Notes:

1. IBM recommends use of system determined block sizes for efficient DASD utilization for all non-RECFM U data sets. For RECFM U data sets, IBM recommends a block size of 32760, which is the most efficient from a performance and DASD utilization perspective.
2. Abbreviations used for the data set type are:
 - U** Unique data set, allocated by this product and used only by this product. To determine the correct storage needed for this data set, this table provides all required information; no other tables (or Program Directories) need to be referenced for the data set size.
 - S** Shared data set, allocated by this product and used by this product and others. To determine the correct storage needed for this data set, the storage size given in this table needs to be added to 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 others. This data set is NOT allocated by this product. To determine the correct storage needed for this data set, the storage size given in this table needs to be added to other tables (perhaps in other program directories). This existing data set 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 one and reclaim the space used by the old release and any service that had been installed. You can determine whether or not 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 on the names and sizes of the required data sets, please refer to 6.1.8, "Allocate SMP/E Target and Distribution Libraries" on page 18.

3. All target and distribution libraries listed have the following attributes:
 - The default name of the data set may be changed.
 - The default block size of the data set may be changed.
 - The data set may be merged with another data set that has equivalent characteristics.
4. All target libraries listed have the following attributes:
 - The data set may be SMS-managed.
 - It is not required for the data set to be SMS-managed.
 - It is not required for the data set to reside on the IPL volume.
 - The values in the "Member Type" column are not necessarily the actual SMP/E element types identified in the SMPMCS.

5. All target libraries listed which contain load modules have the following attributes:

- The data set may be in the LPA. Only if all modules are re-entrant.
- It is not required for the data set to be in the LPA.
- The data set may be in the LNKLIST.
- It is required for SABXLOAD to be APF-authorized.

The following figures describe the target and distribution libraries required to install File Export for z/OS. The storage requirements of File Export for z/OS must be added to the storage required by other programs having data in the same library.

Note: The data in these tables should be used when determining 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 11. Storage Requirements for File Export for z/OS 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
SABXDBRM	MAC	ANY	U	PDS	FB	80	1	2
SABXLOAD	LMOD	ANY	U	PDSE	U	0	405	10
SABXMENU	MSG	ANY	U	PDS	FB	80	2	1
SABXPENU	PANEL	ANY	U	PDS	FB	80	23	11
SABXSAMP	SAMPLE	ANY	U	PDS	FB	80	77	2
SABXSLIB	SKL	ANY	U	PDS	FB	80	1	1
SABXEXP	TABLE	ANY	U	PDS	FB	80	1	1
SABXTENU	TABLE	ANY	U	PDS	FB	80	2	1

Figure 12 (Page 1 of 2). Storage Requirements for File Export for z/OS 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
AABXDBRM	U	PDS	FB	80	1	1
AABXLOAD	U	PDSE	U	0	451	10
AABXMENU	U	PDS	FB	80	2	1
AABXPENU	U	PDS	FB	80	23	11
AABXSAMP	U	PDS	FB	80	77	2

Figure 12 (Page 2 of 2). Storage Requirements for File Export for z/OS 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
AABXSLIB	U	PDS	FB	80	1	1
AABXEXP	U	PDS	FB	80	1	1
AABXTENU	U	PDS	FB	80	2	1

5.3 FMIDs Deleted

Installing File Export for z/OS may result in the deletion of other FMIDs. To see what FMIDs will be deleted, examine the ++VER statement in the product's SMPMCS.

If you do not wish to delete these FMIDs at this time, you must install File Export for z/OS into separate SMP/E target and distribution zones.

Note: These FMIDs will not automatically be deleted from the Global Zone. Consult the SMP/E manuals for instructions on how to do this.

5.4 Special Considerations

File Export for z/OS has no special considerations for the target system.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of File Export for z/OS.

Please note the following:

- If you want to install File Export for z/OS into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMPCSI and the SMP/E control data sets.
- Sample jobs have been provided to help perform some or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries required for SMP/E execution have been defined in the appropriate zones.
- The SMP/E dialogs may be used instead of the sample jobs to accomplish the SMP/E installation steps.

6.1 Installing File Export for z/OS

6.1.1 SMP/E Considerations for Installing File Export for z/OS

This release of File Export for z/OS is installed using the SMP/E RECEIVE, APPLY, and ACCEPT commands. The SMP/E dialogs may be used to accomplish the SMP/E installation steps.

6.1.2 SMP/E Options Subentry Values

The recommended values for some SMP/E CSI subentries are shown in Figure 13. Use of values lower than these may result in failures in the installation process. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. Refer to the SMP/E manuals for instructions on updating the global zone.

SUB-ENTRY	Value	Comment
DSSPACE	(200,200,500)	3390 DASD tracks
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

6.1.3 SMP/E CALLLIBS Processing

File Export for z/OS uses the CALLLIBS function provided in SMP/E to resolve external references during installation. When File Export for z/OS is installed, ensure that DDDEFs exist for the following libraries:

- SISPLOAD
- SCEELKED
- SCEELKEX
- SCEEBND2
- SCEECPP
- SCEELIB
- SCLBSID
- SIXMEXP

Note: The DDDEFs above are used only to resolve the link-edit for File Export for z/OS using CALLLIBS. These data sets are not updated during the installation of File Export for z/OS.

6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install File Export for z/OS:

Figure 14. Sample Installation Jobs

Job Name	Job Type	Description	RELFILE
ABXALA	SMP/E	Sample job to allocate and initialize a new SMP/E CSI data set (Optional)	IBM.HAAA110.F4
ABXALB	SMP/E	Sample job to allocate SMP/E data sets (Optional)	IBM.HAAA110.F4
ABXRECEV	RECEIVE	Sample RECEIVE job	IBM.HAAA110.F4
ABXALLOC	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HAAA110.F4
ABXDDDEF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HAAA110.F4
ABXAPPLY	APPLY	Sample APPLY job	IBM.HAAA110.F4
ABXACCEP	ACCEPT	Sample ACCEPT job	IBM.HAAA110.F4

You can access the sample installation jobs by performing an SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 14 to find the appropriate relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```

//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//*****
/* If you wish to create a new global zone do not run the *
/* RCVPDO job supplied with CBPDO. RCVPDO assumes that *
/* you will be installing into an existing global zone. *
/* Make the //TAPEIN DD statement below active if you install*
/* from a CBPDO tape by uncommenting the DD statement below. *
//*****
/*TAPEIN DD DSN=IBM.HAAA110.F4,UNIT=tunit,
/* VOL=SER=volser,LABEL=(X,SL),
/* DISP=(OLD,KEEP)
//*****
/* Make the //TAPEIN DD statement below active if you install*
/* from a product tape received outside the CBPDO process *
/* (using the optional SMP/E RECEIVE job) by uncommenting *
/* the DD statement below. *
//*****
/*TAPEIN DD DSN=IBM.HAAA110.F4,UNIT=tunit,
/* VOL=SER=AAA110,LABEL=(5,SL),
/* DISP=(OLD,KEEP)
//*****
/* Make the //FILEIN DD statement below active for *
/* downloaded DASD files. *
//*****
/*FILEIN DD DSN=IBM.HAAA110.F4,UNIT=SYSALLDA,DISP=SHR,
/* VOL=SER=filevol
//OUT DD DSNAME=jcl-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// SPACE=(TRK,(20,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*

```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit address where the product tape is mounted

volser is the volume serial matching the product tape

X is the tape file number where the data set name is on the tape

Refer to the documentation provided by CBPDO to see where IBM.HAAA110.F4 is on the tape.

If using 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 will be stored

dasdvol is the volume serial of the DASD device where the output data set will reside

SYSIN

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

You can also access the sample installation jobs by performing an SMP/E RECEIVE and then copying the jobs from the refiles to a work data set for editing and submission. See Figure 14 on page 16 to find the appropriate refile data set.

6.1.5 Allocate SMP/E CSI (Optional)

If you are using an existing CSI, do not execute this job.

If you are allocating a new SMP/E data set for this install, edit, and submit sample job ABXALA to allocate the SMP/E data set for File Export for z/OS.

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

6.1.6 Initialize CSI zones (Optional)

Edit and submit sample job ABXALB to initialize SMP/E zones for File Export for z/OS. Consult the instructions in the sample job for more information.

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

6.1.7 Perform SMP/E RECEIVE

Note: If you obtained File Export for z/OS as part of a CBPDO, use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the File Export for z/OS FMIDs as well as any service, HOLDDATA, or preventive service planning (PSP) information included on the CBPDO tape. For more information, refer to the documentation included with the CBPDO.

You can also choose to edit and submit sample job ABXRECEV to perform the SMP/E RECEIVE for File Export for z/OS. Consult the instructions in the sample job for more information.

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

6.1.8 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job ABXALLOC to allocate the SMP/E target and distribution libraries for File Export for z/OS. Consult the instructions in the sample job for more information.

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

6.1.9 Create DDDEF Entries

Edit and submit sample job ABXDDDEF to create DDDEF entries for the SMP/E target and distribution libraries for File Export for z/OS. Consult the instructions in the sample job for more information.

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

6.1.10 Perform SMP/E APPLY

Edit and submit sample job ABXAPPLY to perform an SMP/E APPLY CHECK for File Export for z/OS. 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 following on the APPLY CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of **ERRORS** and not of **WARNINGS** (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Once you have taken any actions 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 apply 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.

6.1.11 Perform SMP/E ACCEPT

Edit and submit sample job ABXACCEP to perform an SMP/E ACCEPT CHECK for File Export for z/OS. 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 following on the ACCEPT CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of **ERRORS** and not of **WARNINGS** (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Before using SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. This will cause entries produced from JCLIN to be saved in the distribution zone whenever a SYSMOD containing inline JCLIN is ACCEPTed. For more information on the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E manuals.

Once you have taken any actions 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 accept 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 containing replacement modules are being ACCEPTed, SMP/E ACCEPT processing will linkedit/bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder may issue messages documenting unresolved external references, resulting in a return code of 4 from the ACCEPT step. These messages can be ignored, because the distribution libraries are not executable and the unresolved external references will not affect the executable system libraries.

Expected Return Codes and Messages from ACCEPT if no PTFs are being installed: You will receive a return code of 0 if this job runs correctly.

6.1.12 Run REPORT CROSSZONE

The SMP/E REPORT CROSSZONE command will identify requisites defined for products that have been installed in separate zones. This command will also create APPLY and ACCEPT commands in the SMPPUNCH data set which you can use to install those cross-zone requisites it identifies.

After you have installed File Export for z/OS, 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 describing all the target and distribution libraries to be reported on.

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

6.2 Activating File Export for z/OS

The publication *File Export for z/OS Reference Manual, SC31-6870* contains the step-by-step procedures to activate the functions of File Export for z/OS.

7.0 Notices

References in this document to IBM products, programs, or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program, or service is not intended to state or imply that only IBM's product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe on any of IBM's intellectual property rights may be used instead of the IBM product, program, or service. Evaluation and verification of operation in conjunction with other products, except those expressly designated by IBM, is the user's responsibility.

APAR numbers are provided in this document to assist in locating PTFs that may be required. Ongoing problem reporting may result in additional APARs being created. Therefore, the APAR lists in this document may not be complete. To obtain current service recommendations and to identify current product service requirements, always contact the IBM Customer Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

IBM may have patents or pending patent applications covering subject matter in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to the

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, New York 10504-1785
USA

For online versions of this book, we authorize you to:

- Copy, modify, and print the documentation contained on the media, for use within your enterprise, provided you reproduce the copyright notice, all warning statements, and other required statements on each copy or partial copy.
- Transfer the original unaltered copy of the documentation when you transfer the related IBM product (which may be either machines you own, or programs, if the program's license terms permit a transfer). You must, at the same time, destroy all other copies of the documentation.

You are responsible for payment of any taxes, including personal property taxes, resulting from this authorization.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Some jurisdictions do not allow the exclusion of implied warranties, so the above exclusion may not apply to you.

Your failure to comply with the terms above terminates this authorization. Upon termination, you must destroy your machine readable documentation.

7.1 Trademarks

The following terms are trademarks of the IBM Corporation in the United States or other countries or both:

CBPDO
IBM®
DB2®
MVS
IMS

OS/390®
S/390®
z/OS®
SystemPac®

Reader's Comments

Program Directory for IBM File Export for z/OS, December 2004

You may use this form to comment about this document, its organization, or subject matter with the understanding that IBM may use or distribute whatever information you supply in any way it believes appropriate without incurring any obligation to you.

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
Contents of Program Directory	1	2	3	4	5	N
Installation Verification Programs	1	2	3	4	5	N
Time to install the product	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
Ease of getting the system into production after installation	1	2	3	4	5	N

How did you order this product?

- CBPDO
- CustomPac
- ServerPac
- Independent
- Other

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 z/OS products?

- Yes

IBM Corporation
Silicon Valley Laboratory
Department DTX/H150
555 Bailey Avenue
San Jose, California 95141

FAX Number: (408) 463-4393

E-Mail: dcsooto@us.ibm.com



Printed in U.S.A.

G110-8527-00

