Program Directory for
IBM IMS Fast Path Solution Pack for z/OS

V02.01.00
Program Number 5698-FPP

FMID HAHQ210

for Use with
z/OS

Document Date: March 2020

GI13-5905-00
Before using this information and the product it supports, be sure to read the general information under 7.0, “Notices” on page 29.

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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 IMS Fast Path Solution Pack for z/OS. This publication refers to IBM IMS Fast Path Solution Pack for z/OS as IMS FP Solution Pack.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 4 identifies the basic program materials and documentation for IMS FP Solution Pack.
- 3.0, “Program Support” on page 8 describes the IBM support available for IMS FP Solution Pack.
- 4.0, “Program and Service Level Information” on page 10 lists the APARs (program level) and PTFs (service level) that have been incorporated into IMS FP Solution Pack.
- 5.0, “Installation Requirements and Considerations” on page 14 identifies the resources and considerations that are required for installing and using IMS FP Solution Pack.
- 6.0, “Installation Instructions” on page 21 provides detailed installation instructions for IMS FP Solution Pack. It also describes the procedures for activating the functions of IMS FP Solution Pack, or refers to appropriate publications.

Before installing IMS FP Solution Pack, 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; after which, keep the documents for your reference. Section 3.2, “Preventive Service Planning” on page 8 tells you how to find any updates to the information and procedures in this program directory.

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

Do not use this program directory if you install IMS FP Solution Pack 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.

1.1 IMS FP Solution Pack Description

IBM IMS Fast Path Solution Pack for z/OS, V2.1 (5698-FPP) provides extensive and easy-to-use utilities that include all the functions database administrators (DBAs) need to analyze and maintain IMS Fast Path databases (DEDBs), as well as the Fast Path Second Index (FPSI) databases, including features that help boost system availability by enabling the operation of a variety of key functions without taking DEDBs offline.
IMS Fast Path Solution Pack for z/OS:

- Leverages a complete set of high-performance utilities to initialize, load, unload, reorganize, verify, tune, and report on DEDBs
- Provides utilities to build the FPSI databases, synchronize FPSI databases with their primary DEDBs, and reclaim the control intervals (CIs) in FPSI database data sets
- Integrates with active autonics features of Autonotics Director (a component of the separately licensed IBM Tools Base for z/OS, V1.6 (5655-V93)) to establish the active autonotics environment to establish the active autonotics environment to automate recurring monitoring and maintenance tasks for DEDBs
- Extends the capabilities of IBM Management Console for IMS and Db2 for z/OS (5655-TAC, an IBM product separately licensed) by providing detailed insight into the health and availability of DEDBs through its more easily accessible web interface
- Provides high-performance image copy using advanced technology
- Provides utilities to manage IMS libraries to help provide database integrity and to correct pointer problems

IMS Fast Path Solution Pack for z/OS, V2.1 provides the following new utility, further extending the product's capabilities and usability: IMS Fast Path Solution Pack for z/OS offers:

- **Online Structure Change utility** The Online Structure Change utility (OSC) facilitates restructure tasks for online IMS DEDBs. The utility provides advanced functions that help DBAs change the DBD definition, randomizing module or segment edit/compression routine of DEDB while providing users with full access to the database. OSC helps to improve the overall database availability and helps to prevent or significantly reduce planned downtime.

In addition, IMS Fast Path Solution Pack V2.1 adds support for IMS Managed ACBs for the following additional utilities:

- DEDB Reload Segment Data Set Create utility (FABCUR6)
- DEDB Unloaded Segment Data Set Retrieve utility (FABCUR7)
- DEDB randomizing modules (FABCRMIF and FABDRMIF)

**IMS Fast Path Solution Pack Utilities**

- **IMS Fast Path Advanced Tool**
  - Integrates tool functions, improving processing efficiency and greatly reducing the time and resources needed for operation
  - Provides concurrent initialization, unload, reload, reorganization, restructure, analysis, tuning, DMAC print, and extract of multiple DEDB areas without impacting all areas of a database, all in a single step
  - Provides concurrent build, synchronization, analysis and free space reclaim of the FPSI databases
- **IMS Fast Path Online Tools**
  - Integrates tool functions, improving processing efficiency and greatly reducing the time and resource needed for operation
  - Consists of an Online Pointer Checker, Online Data Extract, Online Area Extender, Online Expert Reorganization, and Online DMAC print utilities
  - Provides for all operations without having to take the DEDBs offline
• Online Space Management utility
  – Works with active autonomies features of Autonomics Director to automate database reorganization, IOVF extension, and SDEP extension task based on an understanding of the current state of your DEDB
• Online Structure Change utility
  – With Version 2.1:
    Facilitates restructure tasks to change the DBD definition, randomizing module or segment edit/compression routine while providing users with full access to the DEDBs

**IMS Library Integrity Utilities**
• Provides utilities to validate, compare, map, and report on IMS libraries
• Complements and exploits the visualization of a decoded DBD from a DBD library in the IBM Management Console for IMS and Db2 for z/OS

**IMS High Performance Image Copy**
• Provides fast backup and recovery of database data sets using advance copy technology

**IMS Database Repair Facility**
• Provides the capability to locate and fix problem pointers

For more information on the features available in IMS Fast Path Solution Pack for z/OS, see the website: https://www.ibm.com/no-en/marketplace/ims-fast-path-solution-pack

### 1.2 IMS FP Solution Pack FMIDs

IMS FP Solution Pack consists of the following FMIDs:

- HAHQ210 IMS FP Solution Pack
- H27P220 IMS Library Integrity Utilities
- H1J0420 IMS HP Image Copy
- H22K310 DB Repair
2.0 Program Materials

An IBM program is identified by a program number. The program number for IMS FP Solution Pack is 5698-FPP.

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 IMS FP Solution Pack. 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 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 21 for more information about how to install the program.

You can find information about the physical media for the basic machine-readable materials for IMS FP Solution Pack in the CBPDO Memo To Users Extension.

Figure 1 describes the program file content for IMS FP Solution Pack. 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 must be used in the JCL of jobs that read the data sets. However, because the data sets are in IEBCOPY unloaded format, their actual attributes might be different.

2. If any RELFILEs are identified as PDSEs, ensure that SMPTLIB data sets are allocated as PDSEs.

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<thead>
<tr>
<th>Name</th>
<th>ORG</th>
<th>REC</th>
<th>LRE</th>
<th>BLK SIZE</th>
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<tbody>
<tr>
<td>SMPMCS</td>
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<td>8800</td>
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<td>PDS</td>
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<td>80</td>
<td>8800</td>
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<tr>
<td>IBM.HAHQ210.F2</td>
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<td>FB</td>
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<td>8800</td>
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</table>
To view the Program File Content of the products that constitute IBM IMS Fast Path Solution Pack for z/OS, refer to the following Program Directories that are supplied with the product.

- Publication number GI10-8798 for IMS Library Integrity Utilities
- Publication number GI10-8671 for IMS High Performance Image Copy

### 2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for IMS FP Solution Pack.

### 2.3 Program Publications

The following sections identify the basic publications for IMS FP Solution Pack.

Figure 3 identifies the basic unlicensed publications for IMS FP Solution Pack. Publications can be accessed at the IBM Publications Center website at:

<table>
<thead>
<tr>
<th>Publication Title</th>
<th>Form Number</th>
<th>Media Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM IMS Library Integrity Utilities for z/OS Program Directory</td>
<td>GI10-8798</td>
<td><a href="http://www.ibm.com/support/docview.wss?uid=swg27020942">http://www.ibm.com/support/docview.wss?uid=swg27020942</a></td>
</tr>
</tbody>
</table>
To view the unlicensed publications of the products that constitute IBM IMS Fast Path Solution Pack for z/OS, refer to the following Program Directories that are supplied with the product.

- Publication number GI10-8798 for IMS Library Integrity Utilities
- Publication number GI10-8671 for IMS High Performance Image Copy

### 2.4 Program Source Materials

No program source materials or viewable program listings are provided for IMS FP Solution Pack.

### 2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 4 during the installation of IMS FP Solution Pack.
<table>
<thead>
<tr>
<th>Publication Title</th>
<th>Form Number</th>
<th>Media Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</td>
<td>GA32-0883</td>
<td><a href="http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss">http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss</a></td>
</tr>
</tbody>
</table>
### 3.0 Program Support

This section describes the IBM support available for IMS FP Solution Pack.

### 3.1 Program Services

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

### 3.2 Preventive Service Planning

Before you install IMS FP Solution Pack, 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 6.1.10, “Perform SMP/E APPLY” on page 24 for a sample APPLY command.

If you obtained IMS FP Solution Pack as part of a CBPDO, HOLDDATA is included.

If the CBPDO for IMS FP Solution Pack 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:


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/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 IMS FP Solution Pack are included in Figure 5.

<table>
<thead>
<tr>
<th>UPGRADE</th>
<th>SUBSET</th>
<th>Description</th>
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<tr>
<td>5655W14</td>
<td>HAHQ210</td>
<td>IMS FP Solution Pack</td>
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<tr>
<td>5655U08</td>
<td>H27P220</td>
<td>IMS Library Integrity Utilities</td>
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<tr>
<td>5655N45</td>
<td>H1J0420</td>
<td>IMS HP Image Copy</td>
</tr>
</tbody>
</table>
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 6 identifies the component IDs (COMPID) for IMS FP Solution Pack.

<table>
<thead>
<tr>
<th>UPGRADE</th>
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<th>Description</th>
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</thead>
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<tr>
<td>5655U09</td>
<td>H22K310</td>
<td>IMS HP Pointer Checker - DB Repair</td>
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</tbody>
</table>
4.0 Program and Service Level Information

This section identifies the program and relevant service levels of IMS FP Solution Pack. 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.

4.1 Program Level Information

The following APAR fixes against previous releases of IMS FP Solution Pack have been incorporated into this release. They are listed by FMID.

- FMID HAHQ130 (IMS FP Solution Pack)

<table>
<thead>
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<th>FMID</th>
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The following APAR fixes against previous releases of IMS Library Integrity Utilities have been incorporated into this release. They are listed by FMID.
- FMID H27P210 (IMS Library Integrity Utilities)

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The following APAR fixes against previous releases of IMS HP Image Copy have been incorporated into this release. They are listed by FMID.

- FMID H1J0410 (IMS HP Image Copy)

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Program and Service Level Information 11
The following APAR fixes against previous releases of DB Repair have been incorporated into this release. They are listed by FMID.

- **FMID H22K120 (DB Repair)**

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</table>
4.2 Service Level Information

No PTFs against this release of IMS FP Solution Pack have been incorporated into the product package.

Frequently check the IMS FP Solution Pack 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.
5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating IMS FP Solution Pack. 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.

5.1 Driving System Requirements

This section describes the environment of the driving system required to install IMS FP Solution Pack.

5.1.1 Machine Requirements

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

5.1.2 Programming Requirements
5.2 Target System Requirements

This section describes the environment of the target system required to install and use IMS FP Solution Pack.

IMS FP Solution Pack installs in the DBS (P115) 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.
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.

IMS FP Solution Pack has no conditional installation requisites.

To view the Installation Requisites of the products that constitute IBM IMS Fast Path Solution Pack for z/OS, refer to the following Program Directories that are supplied with the product.

- Publication number GI10-8798 for IMS Library Integrity Utilities
- Publication number GI10-8671 for IMS High Performance Image Copy

### 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.

IMS FP Solution Pack has no mandatory operational requisites.

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.
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.

IMS FP Solution Pack 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.

IMS FP Solution Pack has no negative requisites.

5.2.3 DASD Storage Requirements

IMS FP Solution Pack libraries can reside on all supported DASD types.

Figure 10 lists the total space that is required for each type of library.
To review the individual DASD Storage Requirements of each of the products that constitute IBM IMS Fast Path Solution Pack for z/OS, refer to the Program Directories supplied with the product.

- Publication number GI10-8798 for IMS Library Integrity Utilities
- Publication number GI10-8671 for IMS High Performance Image Copy

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 6.1.8, "Allocate SMP/E Target and Distribution Libraries“ on page 24.

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:

<table>
<thead>
<tr>
<th>Library Type</th>
<th>Total Space Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target</td>
<td>710</td>
</tr>
<tr>
<td>Distribution</td>
<td>695</td>
</tr>
</tbody>
</table>

Figure 10. Total DASD Space Required by IMS FP Solution Pack
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, with some exceptions. If the value in the "ORG" column specifies "PDS", the data set must be a PDS. If the value in "DIR Blks" column specifies "N/A", the data set must be 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 not be in the LPA, with some exceptions. If the value in the "Member Type" column specifies "LPA", it is advised to place the data set in the LPA.
   - These data sets can be in the LNKLST.
   - These data sets are not required to be APF-authorized, with some exceptions. If the value in the "Member Type" column specifies "APF", the data set must be APF-authorized.

The following figures describe the target and distribution libraries and file system paths required to install IMS FP Solution Pack. The storage requirements of IMS FP Solution Pack 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.

<table>
<thead>
<tr>
<th>Library DDNAME</th>
<th>Member Type</th>
<th>Target Volume</th>
<th>T Y P E</th>
<th>O R F G</th>
<th>R E C</th>
<th>L R E C</th>
<th>No. of 3390 Trks</th>
<th>No. of DIR Blks</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFABCLIB</td>
<td>CLIST</td>
<td>Any</td>
<td>S</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>80</td>
<td>50</td>
</tr>
<tr>
<td>SFABLMDO</td>
<td>LMOD</td>
<td>Any</td>
<td>S</td>
<td>PDS</td>
<td>U</td>
<td>0</td>
<td>30</td>
<td>50</td>
</tr>
<tr>
<td>SFABMLIB</td>
<td>Message</td>
<td>Any</td>
<td>S</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>15</td>
<td>30</td>
</tr>
<tr>
<td>SFABPLIB</td>
<td>Panel</td>
<td>Any</td>
<td>S</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>30</td>
<td>50</td>
</tr>
<tr>
<td>SHFPBASE</td>
<td>Sample</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>15</td>
<td>3</td>
</tr>
<tr>
<td>SHFPJCL0</td>
<td>Sample</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>15</td>
<td>3</td>
</tr>
<tr>
<td>SHFPLMD0</td>
<td>APF</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>U</td>
<td>0</td>
<td>450</td>
<td>350</td>
</tr>
<tr>
<td>SHFPMAC0</td>
<td>Macro</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>60</td>
<td>6</td>
</tr>
<tr>
<td>SHFPSAMP</td>
<td>Sample</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>15</td>
<td>3</td>
</tr>
</tbody>
</table>
### 5.3 FMIDs Deleted

Installing IMS FP Solution Pack 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 IMS FP Solution Pack 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

If you already have standalone installations of any of the products that are contained in IMS FP Solution Pack, you do not have to install or customize those products again.

To view the individual Special Considerations of the products that constitute IMS FP Solution Pack, refer to the following Program Directories that are supplied with the product.

- Publication number GI10-8798 for IMS Library Integrity Utilities
- Publication number GI10-8671 for IMS High Performance Image Copy

---

<table>
<thead>
<tr>
<th>Library DDNAME</th>
<th>No. of Trks</th>
<th>No. of Dir Blks</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFABCLIB</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>AFABMLIB</td>
<td>80</td>
<td>15</td>
</tr>
<tr>
<td>AFABMOD0</td>
<td>80</td>
<td>30</td>
</tr>
<tr>
<td>AFABPLIB</td>
<td>80</td>
<td>30</td>
</tr>
<tr>
<td>AHF PJCL0</td>
<td>80</td>
<td>15</td>
</tr>
<tr>
<td>AHF MAC0</td>
<td>80</td>
<td>60</td>
</tr>
<tr>
<td>AHF MOD0</td>
<td>80</td>
<td>450</td>
</tr>
<tr>
<td>AHF SAMP</td>
<td>80</td>
<td>15</td>
</tr>
</tbody>
</table>

---

**Figure 12. Storage Requirements for IMS FP Solution Pack Distribution Libraries**
6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of IMS FP Solution Pack.

Please note the following points:

- If you want to install IMS FP Solution Pack 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.
- 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.

6.1 Installing IMS FP Solution Pack

6.1.1 SMP/E Considerations for Installing IMS FP Solution Pack

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of IMS FP Solution Pack.

To view the individual SMP/E installation instructions of each of the products that constitute IBM IMS Fast Path Solution Pack for z/OS, refer to the following Program Directories that are supplied with the product, and follow the instructions in the corresponding section(s):

- Publication number GI10-8798 for IMS Library Integrity Utilities
- Publication number GI10-8671 for IMS High Performance Image Copy

6.1.2 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 13. 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.

<table>
<thead>
<tr>
<th>Subentry</th>
<th>Value</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSSPACE</td>
<td>(200,200,500)</td>
<td>3390 DASD tracks</td>
</tr>
<tr>
<td>PEMAX</td>
<td>SMP/E Default</td>
<td>IBM recommends using the SMP/E default for PEMAX.</td>
</tr>
</tbody>
</table>
6.1.3 SMP/E CALLLIBS Processing

IMS FP Solution Pack, FMID HAHQ210, uses the CALLLIBS function that is provided in SMP/E to resolve external references during installation. When IMS FP Solution Pack is installed, ensure that DDDEF exists for the following library:

- SDFSRESL

DB Repair, FMID H22K310, uses the CALLLIBS function that is provided in SMP/E to resolve external references during installation. When DB Repair is installed, ensure that DDDEFs exist for the following libraries:

- SISPLOAD
- SISPLPA

Note: CALLLIBS uses the previous DDDEFs only to resolve the link-edit for IMS FP Solution Pack. These data sets are not updated during the installation of IMS FP Solution Pack.

6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install IMS FP Solution Pack:

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Job Type</th>
<th>Description</th>
<th>RELFILE</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFPALA</td>
<td>SMP/E</td>
<td>Sample job to allocate new SMP/E data sets (Optional)</td>
<td>IBM.HAHQ210.F2</td>
</tr>
<tr>
<td>HFPALB</td>
<td>SMP/E</td>
<td>Sample job to define SMP/E zones and DDDEFs (Optional)</td>
<td>IBM.HAHQ210.F2</td>
</tr>
<tr>
<td>HFPRECEV</td>
<td>RECEIVE</td>
<td>Sample RECEIVE job for IMS FP Solution Pack (FMID: HAHQ210)</td>
<td>IBM.HAHQ210.F2</td>
</tr>
<tr>
<td>HFPRECV2</td>
<td>RECEIVE</td>
<td>Sample RECEIVE job for DB Repair (FMID: H22K310)</td>
<td>IBM.HAHQ210.F2</td>
</tr>
<tr>
<td>HFPALLOC</td>
<td>ALLOCATE</td>
<td>Sample job to allocate target and distribution libraries for IMS FP Solution Pack</td>
<td>IBM.HAHQ210.F2</td>
</tr>
<tr>
<td>HFPDDDEF</td>
<td>DDDEF</td>
<td>Sample job to define SMP/E DDDEFs</td>
<td>IBM.HAHQ210.F2</td>
</tr>
<tr>
<td>HFPAPPLY</td>
<td>APPLY</td>
<td>Sample APPLY job</td>
<td>IBM.HAHQ210.F2</td>
</tr>
<tr>
<td>HFPACCEP</td>
<td>ACCEPT</td>
<td>Sample ACCEPT job</td>
<td>IBM.HAHQ210.F2</td>
</tr>
</tbody>
</table>

You can access the sample installation jobs by performing an SMP/E RECEIVE (refer to 6.1.7, “Perform SMP/E RECEIVE” on page 24) then copy 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 can also copy the sample installation jobs from the product files by submitting the following job. Your distribution medium will be for the //FILEIN DD 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=*的

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

6.1.5 Allocate SMP/E data sets (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 HFPALA to allocate the SMP/E data set for IMS FP Solution Pack.

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

6.1.6 Initialize SMP/E data sets (Optional)

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

Edit and submit sample job HFPALB to initialize SMP/E zones for IMS FP Solution Pack. 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.

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

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.
6.1.7 Perform SMP/E RECEIVE

If you have obtained IMS FP Solution Pack as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the IMS FP Solution Pack 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 HFPRECEV to perform the SMP/E RECEIVE for IMS FP Solution Pack (HAHQ210). Consult the instructions in the sample job for more information.

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

- You can also choose to edit and submit sample job HFPRECV2 to perform the SMP/E RECEIVE for DB Repair (H22K310). Consult the instructions in the sample job for more information.

  **Expected Return Codes and Messages for HFPRECV2:** 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 HFPALLOC to allocate the SMP/E target and distribution libraries for IMS FP Solution Pack. 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 HFPDDDEF to create DDDEF entries for the SMP/E target and distribution libraries for IMS FP Solution Pack. 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

1. Ensure that you have the latest HOLDDATA; then edit and submit sample job HFPAPPLY to perform an SMP/E APPLY CHECK for IMS FP Solution Pack. 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/c5197) 
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 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.

### 6.1.11 Execute Installation Verification Program for IMS FP Solution Pack

Edit and submit sample job HFPCIVP in the SHFPJCL0 library to run the Installation Verification test for IMS FP Solution Pack.

**Note**

SHFPLMD0 is required to be APF-authorized to run the IVP job HFPCIVP.

Consult the instructions in the job for more information.

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

### 6.1.12 Perform SMP/E ACCEPT

Edit and submit sample job HFPACCEP to perform an SMP/E ACCEPT CHECK for IMS FP Solution Pack. 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:** You will receive a return code of 0 if this job
runs correctly.

### 6.1.13 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 IMS FP Solution Pack, 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.

### 6.2 Activating IMS FP Solution Pack

For customization and use of the various components of IMS FP Solution Pack refer to the following
publications:

- IBM IMS Fast Path Solution Pack for z/OS: Overview and Customization, GC27-9596
- IBM IMS Library Integrity Utilities for z/OS User’s Guide, SC19-3979
- IBM IMS Solution Packs IMS Database Space Tuning Guide, SC19-3395
Additionally, refer to the following publications of Tools Base for z/OS:

- IBM Tools Based for z/OS Configuration Guide for IMS, SC19-4370
- IBM Tools Base Autonomics Director for z/OS User's Guide, SC19-4376
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