



Program Directory for IBM ISPF Productivity Tool

V6.1.0

Program Number 5698-R21

FMID HIQI610

for Use with
z/OS

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Note!

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 20.

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1.0 Introduction

This Program Directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of IBM ISPF Productivity Tool. This publication refers to IBM ISPF Productivity Tool as ISPF Productivity Tool.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic and optional program materials and documentation for ISPF Productivity Tool.
- 3.0, “Program Support” on page 5 describes the IBM support available for ISPF Productivity Tool.
- 4.0, “Program and Service Level Information” on page 7 lists the APARs (program level) and PTFs (service level) incorporated into ISPF Productivity Tool.
- 5.0, “Installation Requirements and Considerations” on page 9 identifies the resources and considerations required for installing and using ISPF Productivity Tool.
- 6.0, “Installation Instructions” on page 15 provides detailed installation instructions for ISPF Productivity Tool. It also describes the procedures for activating the functions of ISPF Productivity Tool, or refers to appropriate publications.

Before installing ISPF Productivity Tool, 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 5 tells you how to find any updates to the information and procedures in this Program Directory.

ISPF Productivity Tool 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. All service and HOLDDATA for ISPF Productivity Tool are included on the CBPDO tape.

Do not use this Program Directory if you are installing ISPF Productivity Tool 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 ISPF Productivity Tool Description

ISPF Productivity Tool is an enhancement to TSO/ISPF that improves its productivity and performance. ISPF Productivity Tool integrates seamlessly into the most frequently used ISPF functions, including BROWSE, EDIT, VIEW, and DSLIST. ISPF Productivity Tool extends the functions provided by ISPF for standard data sets to other objects, including VSAM files, Librarian/Panvalet libraries, UNIX System Services (USS) files, PC files, DB2 tables, as well as other object classes. Along with this support, ISPF

Productivity Tool provides a powerful object browser called OLIST that has the look, feel, and functionality of DSLIST.

ISPF Productivity Tool combines separately provided ISPF utility functions and new ISPF Productivity Tool features into the Member List and the OLIST/DSLISL. The resulting Member, data set, and Object Lists become powerful platforms where you can perform many tasks without navigating to other utilities.

ISPF Productivity Tool extends the ISPF Action Bar with options that provide access to new functionality so you will not have to learn new commands or syntax.

ISPF Productivity Tool provides extensive search capabilities that are fast and intuitive. You can easily search for volumes, data sets, members, and text within members. ISPF Productivity Tool also furnishes automatic drill-down system navigation to pinpoint volumes, data sets, and members. In addition to the ISPF point-and-shoot capabilities, ISPF Productivity Tool has facilities that prompt actions upon cursor selection: Hotbars (user-defined fields that execute commands) Field-sensitive areas in Member Selection Lists and Object Lists Automatic recognition of a data set name on any ISPF panel as a parameter to BROWSE, EDIT, VIEW, or parameters within any TSO command

ISPF Productivity Tool provides integrated and enhanced SCLM support within the standard member and data set lists. SCLM is a source library management component of ISPF that provides change control, multiple source versions, auditing, a built-in make facility, and automatic check-in/sign-out using standard libraries (PDS, PDSE).

All ISPF Productivity Tool functions are totally integrated. ISPF Productivity Tool can perform almost any activity within ISPF, or internally invoke the function that can perform the task.

After ISPF Productivity Tool is installed on your system, the ISPF Primary Option Menu is changed only slightly. The main menu does not look much different. If you are already familiar with ISPF, you can become productive immediately.

When you start using the enhanced features of ISPF Productivity Tool to perform standard BROWSE, EDIT, VIEW functions, as well as most of the ISPF capabilities, you will find almost every ISPF capability has been enhanced and new capabilities added.

1.2 ISPF Productivity Tool FMIDs

ISPF Productivity Tool consists of the following FMIDs:

HIQI610

2.0 Program Materials

An IBM program is identified by a program number. The program number for ISPF Productivity Tool is 5698-R21.

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 ISPF Productivity Tool. 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 ISPF Productivity Tool can be found in the *CBPDO Memo To Users Extension*.

2.2 Optional Machine-Readable Material

2.3 Program Publications

The following sections identify the basic and optional publications for ISPF Productivity Tool.

Figure 1 identifies the basic unlicensed or licensed publications that are not available in hardcopy form, but are available through the internet or other media for ISPF Productivity Tool.

Figure 1. Basic Material: Other Unlicensed or Licensed Publications

Publication Title	Form Number	How Available
IBM ISPF Productivity Tool for z/OS: Users' Guide	SC32-1533	ISPF Productivity Tool Library, see note below
IBM ISPF Productivity Tool for z/OS: Installation and Configuration Guide	SC32-1532	ISPF Productivity Tool Library, see note below

The ISPF Productivity Tool product manuals and program directory can be found at the url listed below:
<http://www-306.ibm.com/software/awdtools/ispfproductivitytool/library/>

2.3.1 Optional Program Publications

No optional publications are provided for ISPF Productivity Tool.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for ISPF Productivity Tool.

2.5 Publications Useful During Installation

The publications listed in Figure 2 may be useful during the installation of ISPF Productivity Tool. 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 2. Publications Useful During Installation</i>	
Publication Title	Form Number
<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

3.0 Program Support

This section describes the IBM support available for ISPF Productivity Tool.

3.1 Program Services

Contact your IBM representative for specific information about available program services. You can find information in the "IBM Software Support Guide" at the following Web site:
<http://www.ibm.com/software/sysmgmt/products/support/>.

The handbook provides information about how to contact Customer Support, depending on the severity of your problem, and the following information:

- Registration and eligibility
- Telephone numbers and e-mail addresses, depending on the country in which you are located
- What information you should gather before contact support

3.2 Preventive Service Planning

Before installing ISPF Productivity Tool, it is VERY IMPORTANT that you review the current Preventive Service Planning (PSP) information. The PSP buckets maintain current lists (which have been identified since the package was created) of any recommended or required service for this package's installation. This includes software PSP information that contains HIPER, and/or required PTFs against the base release.

While there can be overlap between SW, HW and functional PSP buckets, reviewing all that apply to this package will ensure that you identify any known service required for your installation of this package.

If you obtained ISPF Productivity Tool as part of a CBPDO, there is HOLDDATA included on the PDO.

If the CBPDO for ISPF Productivity Tool is more than two weeks old when you install it, you should contact the IBM Support Center, use S/390 SoftwareXcel to obtain the current "PSP Bucket" or obtain the current PSP from the Web at <https://techsupport.services.ibm.com/server/390.psp390>

For program support, access the Software Support Web site 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 ISPF Productivity Tool are:

<i>Figure 3. PSP Upgrade and Subset ID</i>		
UPGRADE	SUBSET	Description
ISPFPROTOOL	HIQI610	ISPF Productivity Tool

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 advise how you should submit any needed information or documentation.

Figure 4 on page 6 identifies the component IDs (COMPID) for ISPF Productivity Tool.

<i>Figure 4. Component IDs</i>			
FMID	COMPID	Component Name	RETAIN Release
HIQI610	5698A8100	ISPF Prod Tool	610

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of ISPF Productivity Tool. 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

The following APAR fixes against previous releases of ISPF Productivity Tool have been incorporated into this release. They are listed by FMID.

- FMID HIQI5A0

OA24217	OA25132	OA25597	OA26121
OA24536	OA25254	OA25808	OA27045

- FMID HIQI590

OA20407	OA21720	OA23530	OA25254
OA20536	OA22140	OA23684	OA25597
OA20760	OA22265	OA24217	OA25808
OA20772	OA22670	OA24536	OA26121
OA20810	OA23074	OA25132	OA27045
OA21315			

- FMID HIQI580

OA13319	OA13789	OA15069	OA16556
OA13669	OA13855	OA15118	OA16860
OA13754	OA13919	OA15295	OA16942
OA13757	OA14147	OA15319	OA16992
OA13758	OA14162	OA15332	OA17062
OA13759	OA14149	OA15337	OA17081
OA13760	OA14174	OA15403	OA17351
OA13761	OA14232	OA15570	OA17493
OA13763	OA14649	OA15704	OA18889
OA13767	OA14650	OA15705	OA19161
OA13779	OA14957	OA15713	OA19285
OA13786	OA15002	OA16081	

4.2 Service Level Information

No PTFs against this release of ISPF Productivity Tool have been incorporated into the product tape.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating ISPF Productivity Tool. The following terminology is used:

- *Driving system*: the system used to install the program.

The program may have specific operating system or product level requirements for utilizing processes such as binder or assembly utilities during the install.

- *Target system*: the system on which the program is intended to run.

The program may have specific product level requirements such as needing access to another product's library for link-edits that may directly affect the elements during the install or for its basic or enhanced operation. These requirements may be mandatory or optional.

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 ISPF Productivity Tool.

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 5. Driving System Software Requirements

Program Number	Product Name and Minimum VRM/Service Level
5694-A01	z/OS 1.8 or later

5.2 Target System Requirements

This section describes the environment of the target system required to install and use ISPF Productivity Tool.

ISPF Productivity Tool 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 6. Mandatory Installation Requisites

Program Number	Product Name and Minimum VRM/Service Level
5694-A01	z/OS V1.8.0 or later

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.

ISPF Productivity Tool has no conditional installation requisites.

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.

ISPF Productivity Tool 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.

ISPF Productivity Tool has no conditional operational requisites.

5.2.2.3 Toleration/Coexistence Requisites

A toleration/coexistence requisite is defined as a product that 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.

ISPF Productivity Tool has no toleration/coexistence requisites.

5.2.2.4 Incompatibility (Negative) Requisites

A negative requisite identifies products that must *not* be installed on the same system as this product.

ISPF Productivity Tool has no negative requisites.

5.2.3 DASD Storage Requirements

ISPF Productivity Tool libraries can reside on all supported DASD types.

Figure 7 lists the total space required for each type of library.

Library Type	Total Space Required
Target	289 3390 Tracks
Distribution	289 3390 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 6.1.6, "Allocate SMP/E Target and Distribution Libraries" on page 17.

3. Abbreviations used for the HFS or zFS Path type are:

- N** New path, created by this product.
- X** Path created by this product, but may 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 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.
- The data set may be either a PDS or a PDSE.

5. 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.

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

- The data set may be in the LPA.
- It is not required for the data set to be in the LPA.
- The data set may be in the LNKLIST.
- It is not required for the data set to be APF-authorized.

The following figures describe the target and distribution libraries and HFS or zFS paths required to install ISPF Productivity Tool. The storage requirements of ISPF Productivity Tool must be added to the storage required by other programs having data in the same library or path.

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 8. Storage Requirements for ISPF Productivity Tool 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
SIQIINST	Sample	ANY	U	PDS	FB	80	4	2
SIQICLIB	CLIST	ANY	U	PDS	FB	80	14	5
SIQICLBV	CLIST	ANY	U	PDS	VB	251	11	5
SIQILOAD	LMOD	ANY	U	PDS	U	0	25	2
SIQILPA	LMOD	ANY	U	PDS	U	0	110	21
SIQIMLIB	Message	ANY	U	PDS	FB	80	3	2
SIQIPLIB	Panel	ANY	U	PDS	FB	80	114	63
SIQISLIB	SKEL	ANY	U	PDS	FB	80	2	2
SIQITLIB	Table	ANY	U	PDS	FB	80	6	6

Figure 9. Storage Requirements for ISPF Productivity Tool 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
AIQIINST	U	PDS	FB	80	4	2
AIQICLIB	U	PDS	FB	80	14	5
AIQICLBV	U	PDS	VB	251	11	5
AIQILOAD	U	PDS	U	0	25	2
AIQILPA	U	PDS	U	0	110	21
AIQIMLIB	U	PDS	FB	80	3	2
AIQIPLIB	U	PDS	FB	80	114	63
AIQISLIB	U	PDS	FB	80	2	2
AIQITLIB	U	PDS	FB	80	6	6

5.3 FMIDs Deleted

Installing ISPF Productivity Tool 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 ISPF Productivity Tool 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

ISPF Productivity Tool 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 ISPF Productivity Tool.

Please note the following:

- If you want to install ISPF Productivity Tool 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. Additionally, to assist you in doing this, IBM has provided samples to help you create an SMP/E environment at the following url:
<http://www-1.ibm.com/support/docview.wss?rs=660&context=SSZJDU&uid=swg21066230>
- 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 ISPF Productivity Tool

6.1.1 SMP/E Considerations for Installing ISPF Productivity Tool

This release of ISPF Productivity Tool 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 10. 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.

<i>Figure 10. SMP/E Options Subentry Values</i>		
SUB-ENTRY	Value	Comment
DSSPACE	20,50,50	use 20 directory blocks
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

6.1.3 SMP/E CALLLIBS Processing

ISPF Productivity Tool does not use the CALLLIBS function provided by SMP/E.

6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install ISPF Productivity Tool:

Figure 11. Sample Installation Jobs

Job Name	Job Type	Description	RELFILE
IQIJRECV	RECEIVE	Sample RECEIVE job	IBM.HIQI610.F1
IQIJALIB	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HIQI610.F1
IQIJDDDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HIQI610.F1
IQIJAPLY	APPLY	Sample APPLY job	IBM.HIQI610.F1
IQIJACPT	ACCEPT	Sample ACCEPT job	IBM.HIQI610.F1

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 11 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=*
//TAPEIN DD DSN=IBM.HIQI610.F1,UNIT=tunit,
// VOL=SER=volser,LABEL=(x,SL),
// DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.HIQI610.F1,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jc1-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// SPACE=(TRK,(5,1,3))
//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 value matching the product tape.

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.HIQI610.F1 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.

6.1.5 Perform SMP/E RECEIVE

Having obtained ISPF Productivity Tool as part of a CBPDO, use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the ISPF Productivity Tool FMIDs as well as any service, HOLDDATA, 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 IQIJRECV to perform the SMP/E RECEIVE for ISPF Productivity Tool. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: The job is considered successful if a return code of 0 is received.

6.1.6 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job IQIJALIB to allocate the SMP/E target and distribution libraries for ISPF Productivity Tool. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: The job is considered successful if a return code of 0 is received.

6.1.7 Create DDDEF Entries

Edit and submit sample job IQIJDDDF to create DDDEF entries for the SMP/E target and distribution libraries for ISPF Productivity Tool. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: The job is considered successful if a return code of 0 is received.

6.1.8 Perform SMP/E APPLY

Edit and submit sample job IQIJAPLY to perform an SMP/E APPLY CHECK for ISPF Productivity Tool. 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).

Enhanced HOLDDATA introduced ERROR HOLDS against FMIDs for HIPER APARs. Prior to installing, you should ensure you have the latest Enhanced HOLDDATA (available at url <http://service.software.ibm.com/holdata/390holddata.html>). The FMID(s) should be installed regardless of the status of unresolved HIPERs, however, the software should not be deployed until the unresolved HIPERs have been analyzed to determine applicability.

There are two methods to complete an FMID installation where ++HOLDS for HIPERs exist for the FMID(s) being installed:

1. To ensure that all recommended and critical service is installed with the FMID(s), add the SOURCEIDs of PRP, HIPER, and RSU* to the APPLY command. There may be PE or HIPER APARs that do not have resolving PTFs available yet. You need to analyze the symptom flags to determine if you want to BYPASS the specific ERROR HOLDS and continue the FMID installation.

```
APPLY S(fmid,fmid,...)
FORFMID(fmid,fmid,...)
SOURCEID(PRP,HIPER,RSU*,...)
GROUPEXTEND .
```

This method requires more initial research, but will provide resolution for all HIPERs that have fixes available and are not in a PE chain. There may still be unresolved PEs or HIPERs that will require the use of BYPASS.

2. To install the FMID(s) as it would have been installed prior to Enhanced HOLDDATA, you can add a BYPASS(HOLDCLASS(HIPER)) operand to the APPLY command. This will allow the FMID to be installed even though there are HIPER ERROR HOLDS against it. Note that not all ERROR HOLDS were bypassed, only the HIPER ERROR HOLDS. After the FMID(s) are installed, the SMP/E REPORT ERRSYSMODS command should be run to identify any missing HIPER maintenance.

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

This method is the quicker of the two, but requires subsequent review of the REPORT ERRSYSMODS to investigate any HIPERs.

If you bypass any HOLDS during the installation of the FMID(s) because fixing PTFs were not yet available you can use the APAR Status Tracking (AST) function of ServiceLink or the APAR Tracking function of ResourceLink to be notified when the fixing PTF is available.

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: The job is considered successful if a return code of 0 is received.

Expected Return Codes and Messages from APPLY: The job is considered successful if a return code of 0 is received.

6.1.9 Perform SMP/E ACCEPT

Edit and submit sample job IQIJACPT to perform an SMP/E ACCEPT CHECK for ISPF Productivity Tool. 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:

If PTFs containing replacement modules are being ACCEPTed, SMP/E ACCEPT processing will link-edit/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: The job is considered successful if a return code of 0 is received.

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

6.2 Activating ISPF Productivity Tool

To make ISPF Productivity Tool fully operational after the SMP/E installation, post SMP/E work needs to be done. Instructions can be found in the IBM ISPF Productivity Tool for z/OS: Installation and Configuration Guide (SC32-1532) which can be found at <http://www-306.ibm.com/software/awdtools/ispfproductivitytool/library/>.

Once you have completed the steps in the documentation, you're ready to move on and test out your installation.

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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".

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