

IBM ISPF Productivity Tool for z/OS



Installation and Customization Guide

Version 5 Release 10 Modification 0

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Version 5 Release 10 Modification 0

Note!

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 55.

Second Edition (March 2008)

This edition applies to Version 5 Release 10 Modification Level 0 of IBM ISPF Productivity Tool (program number 5698-A81) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. About this manual

This guide describes how to install and configure ISPF Productivity Tool. It is intended for the system administrator and operation personnel.

This guide assumes that you are familiar with the basic ISPF functions. Subjects that are discussed in an ISPF manual are explained briefly in this guide. For detailed information about ISPF, see the appropriate IBM documentation.

This guide is divided into the following chapters:

Chapter 1, “About this manual”

Provides general information about this document.

Chapter 2, “An overview of ISPF Productivity Tool,” on page 3

Describes the features and capabilities of ISPF Productivity Tool and introduces the new features in the current release.

Chapter 3, “ISPF Productivity Tool installation and customization,” on page 9

Provides the installation procedures and explains how to configure ISPF Productivity Tool.

The Appendixes

The Appendixes, starting with Appendix A, “The installation tape,” on page 27 cover the installation-related topics and options.

As well as the information in this document, there is more product information available in the online tutorials, Help panels, Assist windows, and the structured Action Bar.

- To invoke the ISPF Productivity Tool tutorial, enter IPTHELP or IPT on any ISPF panel.
- To display all ISPF Productivity Tool command shortcuts, enter IPT? on any ISPF panel.
- To invoke the Online Help, press the HELP key (typically PF1) on any ISPF Productivity Tool panel.
- To display the Assist window, which is available in both the Member Selection List (MSL) and Object List (OLIST), type ASSIST or A on the command line.

About this manual

Chapter 2. An overview of ISPF Productivity Tool

This chapter introduces ISPF Productivity Tool's technology and highlights the new features of ISPF Productivity Tool in Release 5.9.

Automatic integration into ISPF

ISPF Productivity Tool integrates tightly into ISPF whether you change the main menu or not. This tight integration ensures that the performance and productivity improvements that ISPF Productivity Tool offers are not limited to a specific option, but they are available throughout ISPF. Note that this tight integration does not allow activation of ISPF Productivity Tool using LIBDEFs. You should follow the installation instructions carefully and accurately.

ISPF Productivity Tool controls ISPF through a "front-end". The front-end is conveniently named as ISPF, PDF, and ISPSTART, so that ISPF Productivity Tool gains control whenever you start ISPF. Internally, ISPF Productivity Tool invokes ISPF, and provides access to both ISPF and ISPF Productivity Tool services. The ISPF Productivity Tool installation procedures show how to activate ISPF Productivity Tool on a selected group of users without impacting other ISPF users, and how to widen the group of users having access to ISPF Productivity Tool.

The ISPF Productivity Tool front-ending ISPF does not require linking into the ISPF product modules or renaming the ISPF modules. With ISPF Productivity Tool, the original ISPF is left intact. ISPF Productivity Tool does not run authorized, and adheres to all MVS™ security standards.

The ISPF Productivity Tool front end to ISPF automatically deactivates itself when ISPF is run in batch. Other methods of bypassing the ISPF Productivity Tool front end are described in "Bypassing ISPF Productivity Tool (invoking standard ISPF)" on page 25.

The Customization Wizard

The customization of ISPF Productivity Tool options is an automated process controlled by the Customization Wizard. Information is presented in ISPF panels and is remembered across sessions. The Customization Wizard is also used to register other products to work with ISPF Productivity Tool. It may be invoked any time by the ISPF Productivity Tool-ISPF administrator.

For more information about the Customization Wizard, see Appendix I, "The customization wizard IQIWIZRD," on page 45.

Object orientation and registering other products with ISPF Productivity Tool

One of the important ISPF Productivity Tool concepts is its object-oriented technology. The following sections explain how important to understand its role in enabling ISPF Productivity Tool to take advantage of other products installed in your system.

Objects and object classes

The most common object is a data set. With ISPF Productivity Tool, the object class “data set” has several subclasses—different types of data sets, such as PDS, PDSE, VSAM, SEQ, Panvalet, and Librarian. ISPF Productivity Tool supports other object classes as well— DB2® tables, TSO commands, catalog levels, z/OS UNIX System Services files, and others.

ISPF Productivity Tool expands the concept of data set to objects so that ISPF functions and new ISPF Productivity Tool functions that work on data sets can be used to work on other object classes.

Identifying objects

ISPF Productivity Tool includes an automatic object identifier for the data set class. For example, ISPF Productivity Tool automatically identifies VSAM files and knows which method to invoke for these files.

For other object classes, ISPF Productivity Tool uses special notation to identify the object class. For example, DB2 tables are denoted by a leading hyphen. MVS z/OS UNIX System Services files are specified by a leading slash, and workstation (PC) files are specified by enclosing them in double quotation marks.

Note that the leading dash, leading slash, and surrounding quotation marks are not considered part of the object name, and are stripped off before the object name is passed on for processing by the object method.

A list of supported objects, their notation, and function is provided in Appendix G, “Supported objects,” on page 41.

Methods, OLE, and interfacing to other products

Each class is internally associated with a method that acts on the object based upon the action you specify. For example, when you browse a sequential file, the ISPF Productivity Tool registered method for that operation is to invoke the ISPF browse function.

For the user, the environment resembles Microsoft® Windows® OLE where by clicking on an object, the appropriate application is invoked and requested to perform the appropriate function. In a similar manner, what is invoked by ISPF Productivity Tool is controlled by a registration process. This process is defined when you customize ISPF Productivity Tool.

ISPF Productivity Tool comes with many built-in methods for different classes of objects. For example, the method for displaying a member list is the powerful ISPF Productivity Tool MSL (Member Selection List).

ISPF Productivity Tool provides an interface to third party products that can handle DB2 files. When you customize ISPF Productivity Tool, you are presented with a list of database administration tools that ISPF Productivity Tool supports and you register the one that is installed. This allows ISPF Productivity Tool to transparently interface to the DB2 database. You can specify the name of a database file right from option 2 (edit), or use the E(dit) line command in an ISPF Productivity Tool OLIST (Object List).

Similar to registering the VSAM editor/browser you have in your installation, the Customization Wizard lets you register other products—one for each object class.

Object orientation and registering other products with ISPF Productivity Tool

The ISPF Productivity Tool open architecture lets you register your own method—a CLIST or REXX™ exec that would automatically gain control whenever an object is selected.

Therefore you can write your own interface to support objects for which you do not have the appropriate third-party product. A typical example might be someone who wrote their own CA-Librarian interface instead of using the ISPF Productivity Tool supported CA-ELIPS product.

What's new in release 5.10

OLIST enhancements

- New object classes recognized: BOOK (BookManager®), SHELF (BookManager), ZONE (SMP/E).
- IBM BookManager invoked when selecting BOOK and SHELF objects.
- VSAM object handler invoked when selecting a VSAM PATH or ALTINDEX file.
- FINDTEXT command now fully supports the GLOBAL AUTO and EXCLUDE settings. All displayed datasets may be searched in one shot (like MSL GLOBAL).
- New command EMPTY, empties (with a confirmation) partitioned and sequential datasets.
- RIGHT (F11) and LEFT (F10) invoke DSLIST line command when the cursor is pointing at an OLIST row.
- FREE command requires a confirmation. This allows the user to invoke it on a range of datasets with full control.
- IBM FileManager/DB2 is supported as a DB2 object handler.
- Object names starting with "/", ".", "~" are recognized as z/OS UNIX objects with a class name of ZUNIX. Fully support them under z/OS v1.9 via ISPF z/OS UNIX API. For lower z/OS levels provide a downward compatibility via the OLIST "OE" (OpenEdition) interface.

MSL enhancements

- New command EMPTY, empties (with a confirmation) some or all of the concatenated libraries.
- The name of EDIT initial macro is preserved as specified in the EDIT main menu screen. Automatically invoke this macro in all EDIT/VIEW sessions until changed by user to another name or blank.
- Supports (under z/OS v1.9) z/OS UNIX file names with absolute path names of up to 1023 characters in length.
- Supports properly displaying member lists of libraries with huge number (6 digits) of members. The enhanced LOCATE command can be used to position the member list display at a 6-digit row number.

Point-and-shoot enhancements

- Support z/OS UNIX object names as targets for a point-and-shoot.
- Support z/OS system symbols starting with "&".
- Support BookManager object names.

Command shortcuts

What's new in release 5.10

- New command IPTCMDS allows to dynamically disable/enable selected IPT command shortcuts, without affecting any other IPT functionality. TLIB member IQIDCMDS provides an easy way to define the command names that are affected by this feature.
- New command shortcuts: OLBO, OLBK, OLSH, and OLZ, support the new object classes of: BOOK, SHELF, and ZONE.
- OLVS command shortcut also recognizes PATH and ALTINDEX datasets as VSAM objects.
- ISET command shortcut supports a parameter for setting the defaults of a specific function.

Dataset history list

- The History-List now includes names of accessed VSAM and UNIX objects.

IQIWIZRD updates

- Number of Dataset-History-List entries can be customized to a maximum of 999.
- IBM BookManager interface customization.
- IBM FileManager/DB2 interface customization.

IPT/ISPF Logon Procedure

- Alias names SPF and SPIFFY have been added to IPT main module IQIMAIN.
- IQICMDOF DD name: triggers an "IPTCMD OFF" at IPT startup.
- IQIOFF DD name: triggers an "IPTOFF" at IPT startup.
- IQIPANEL DD name: should be used instead of IPIPANEL.

Installation JCL

- Complete set of JCL skeleton jobs for managing a dedicated SMP/E global zone as a "Single Point of Maintenance".

z/OS 1.9 support/ISPF compatibility

IPT has been tested and certified to run on z/OS Version 1 Release 9 and the corresponding release of ISPF (internally numbered 5.9).

Rolled-up maintenance

All required, accumulated maintenance has been "sourced" and included in this release.

What's new in Release 5.9

IBM ISPF Productivity Tool V5.9 contains the following improvements over the previous release:

- Revamped release of the former SPIFFY product from Isogon[®] Corporation. The documentation and product interface has been updated to reflect the IBM name of ISPF Productivity Tool. It is recommended that you review the introductory sections of the Installation Guide and User Guide manuals.
- New naming conventions - A number of components have been renamed to conform to the IBM standard naming convention for z/OS[®] products.
- All load-modules and source members have names that start with "IQI".
- The customization wizard CLIST has been named IQIWIZRD (see Appendix I, "The customization wizard IQIWIZRD," on page 45).

- Required DD name IPITLIB has been replaced with IQITLIB. Note that if the DD name IPITLIB is present without DD name IQITLIB, its associated data set is re-allocated with a DD name IQITLIB.
- PRINT command output DD name is IQISOUT.
- Optional SCLM support DD name IPISCLM has been replaced with IQISCLM.
- Utility work data set DD names are: IQIUTIN, IQIUTOT, IQIUT03, IQIUT04.
- Diagnostics data set DD names, such as IPILOGPR and IPITRSNP, have been renamed as IQILOGPR and IQITRSNP.
- Command shortcuts - this new facility offers 47 command shortcuts, which provide easy access to most of the product functions through the main command line of any application panel. There is also a method to customize each command shortcut to a site-wide selected name or to completely disable it. The presence of command shortcuts for OLIST and MSL removes any need to customize the ISPF primary menu panels (such as ISP@PRIM).
- OLIST command enhancements:
 - Revamped ASSIST facility provides a quick online reference to all supported main and line commands.
 - CANCEL command now bypasses a SAVE to a modified permanent OLIST .
 - REFRESH command restores a modified temporary or permanent OLIST to its original contents.
 - RFIND (F5 key) supports both FIND and EXCLUDE commands in both directions.
 - Automatic filling of the VOLSER field can be either site-wide controlled (using IQIWIZRD CLIST—see Appendix I, “The customization wizard IQIWIZRD,” on page 45)) or changed by each user (via SET command).
- MSL command enhancements:
 - INFO command correctly displays PDSE directory information.
 - REFRESH command restores the displayed members from the current directory.
 - RESET command supports a TEXT or NOTE parameter to allow removal of all permanent notes (such as those generated by GLOBAL command).
 - SORT command supports a TEXT or NOTE parameter to allow sorting by permanent notes (such as those generated by GLOBAL command).
 - BROWSE/EDIT/VIEW main menu displays the data set history list in either an OLIST format or as a time-stamped modifiable list of data set names. Handling of @H “Other data set” field can be either site-wide controlled (using IQIWIZRD CLIST—see Appendix I, “The customization wizard IQIWIZRD,” on page 45) or changed by each user (via SET command).
- @H (for data set history list) can now be specified in the “Other data set” field of the ISPF “Data Set Utility” menu (option 3.2) as well as of the ISPF “Move/Copy Utility” (option 3.3).
- z/OS 1.7 Support/ISPF Compatibility - Full support for Large-Format sequential data sets.
- Rolled-Up Maintenance - All required, accumulated maintenance is included in this release.

What's new in Release 5.9

Chapter 3. ISPF Productivity Tool installation and customization

This chapter describes the requirements to install ISPF Productivity Tool, the installation procedures, and customization of ISPF Productivity Tool. The delivered product code must be installed and maintained using SMP/E as described in the Program Directory for IBM ISPF Productivity Tool V5.10.0, program number 5698-A81, FMID HIQI5A0. The following figures list the target and distribution libraries (data sets) used by ISPF Productivity Tool, and their contents.

Table 1. Distribution data set descriptions

Library	Description
AIQICLBV	IPT CLIST library (variable blocked)
AIQICLIB	IPT CLIST library (fixed blocked)
AIQIINST	IPT installation and maintenance sample JCL library
AIQILOAD	IPT Linklist load library
AIQILPA	IPT LPA load library
AIQIMLIB	IPT ISPF-message library
AIQIPLIB	IPT ISPF-panel library
AIQISLIB	IPT ISPF-skeleton library
AIQITLIB	IPT ISPF-table library

Table 2. Target data set descriptions

Library	Description
SIQICLBV	IPT CLIST library (variable blocked)
SIQICLIB	IPT CLIST library (fixed blocked)
SIQIINST	IPT installation and maintenance sample JCL library
SIQILOAD	IPT Linklist load library
SIQILPA	IPT LPA load library
SIQIMLIB	IPT ISPF-message library
SIQIPLIB	IPT ISPF-panel library
SIQISLIB	IPT ISPF-skeleton library
SIQITLIB	IPT ISPF-table library

Installation requirements

The following system software is required for the installation and operation of ISPF Productivity Tool Release 5.9:

- z/OS Version 1 Release 4 or later operating system
- ISPF Version 5 Release 2 or later

Installation requirements

Installing ISPF Productivity Tool does not require an IPL or authorized mode. Since ISPF Productivity Tool is invoked through libraries pointed to by the TSO LOGON procedure or CLIST, you can install it on a system-wide basis or only for selected programmers.

ISPF Productivity Tool code is fully reentrant. Most of ISPF Productivity Tool code resides above the 16- megabyte line. Most working storage that ISPF Productivity Tool uses is also acquired above the line.

Data set naming conventions

The names assigned to ISPF Productivity Tool libraries have the following structure:

- A first-level qualifier (Project). The default value used throughout this manual is IQI. You can change this value during the installation process.
- A middle-level qualifier (Group) specifying the ISPF Productivity Tool release level. The default value used throughout this manual is V5R10M0.
- A library qualifier (Type) specifying the ISPF Productivity Tool target library type. For example, the qualifier for the panel library is SIQIPLIB.

Using these naming conventions (Project.Group.Type), the name for the ISPF Productivity Tool message library for release 5.10 is IQI.V5R10M0.SIQIMLIB.

Creating ISPF Productivity Tool base (as delivered) environment

The ISPF Productivity Tool delivered code is designed to work above any already existing ISPF environment. The only requirement for creating an ISPF Productivity Tool base environment is to modify an existing TSO LOGON procedure as described below. Any additional customization can be done later after verifying that the ISPF Productivity Tool base environment is running as expected. The ISPF Productivity Tool installation process can be performed while ISPF users are active.

Note: Some installations prefer to use a CLIST to perform the same task. However, unless you have a dynamic STEPLIB capability, you cannot allocate STEPLIB through a CLIST or REXX EXEC. If you want to use a CLIST or REXX EXEC to allocate the ISPF Productivity Tool libraries, you have to place the IPT LPA load library in LPALIB. All the allocations required for ISPF Productivity Tool must be active before ISPF Productivity Tool is started. LIBDEFs can be used for applications called within ISPF Productivity Tool, but not for ISPF Productivity Tool itself.

Note: Some of the DD names required for ISPF Productivity Tool are new DD names. Do not confuse them with existing ISPF DD names.

The following JCL example illustrates the changes you should make to a copy of your LOGON procedure or you can incorporate the changes into a new LOGON procedure that you create:

```
//STEPLIB DD DISP=SHR,DSN=IQI.V5R10M0.SIQILPA           1
//        DD DISP=SHR,DSN=IQI.V5R10M0.SIQILOAD         2
//        DD .
//ISPLLIB DD DISP=SHR,DSN=IQI.V5R10M0.SIQILPA           1
//        DD DISP=SHR,DSN=IQI.V5R10M0.SIQILOAD         2
//        DD .
//SYSPROC DD ...
//        DD DISP=SHR,DSN=IQI.V5R10M0.SIQICLIB         3
//ISPMLIB DD ...
```


Creating ISPF Productivity Tool base (as delivered) environment

```
//          DD  DISP=SHR,DSN=IQI.V5R10M0.SIQIMLIB          4
//ISPPLIB DD  ...
//          DD  DISP=SHR,DSN=IQI.V5R10M0.SIQIPLIB          5
//ISPPLIB DD  ...
//          DD  DISP=SHR,DSN=IQI.V5R10M0.SIQISLIB          6
//IQITLIB DD  DISP=SHR,DSN=IQI.V5R10M0.SIQITLIB          7
//IQIUTIN DD  DISP=NEW,UNIT=VIO,                          8
//          SPACE=(CYL,1,1),RECFM=FB,LRECL=80,BLKSIZE=4000
//IQIUTOT DD  DISP=NEW,UNIT=SYSALLDA,                      8
//          SPACE=(CYL,2,2),RECFM=FBA,LRECL=121,BLKSIZE=4840
//IQIUT03 DD  DISP=NEW,UNIT=VIO,SPACE=(3,1)                8
//IQIUT04 DD  DISP=NEW,UNIT=VIO,SPACE=(3,1)                8
//IQIPANEL DD  DISP=SHR,DSN=IQI.V5R10M0.SIQIPLIB(ISR@PRIM) 9
//IQISCLM DD  DUMMY                                       10
```

1 The LPA Load Library SIQILPA

This library must be in DD(STEPLIB) or installed in the LPA. If you do not change the TSO LOGON procedure, use a dynamic STEPLIB utility for the LPA load library. During initial ISPF Productivity Tool testing, put this library in DD(ISPLLIB).

Important note: The SIQILPA library must always be specified ahead of the corresponding ISPF SISPLPA library. This ensures that ISPF main entry points ISPF, ISPSTART, and PDF first run the ISPF Productivity Tool main program.

The ISPF Productivity Tool load modules can be moved to LPALIB or any other system library. For performance reasons, LPALIB is recommended. Since most of ISPF Productivity Tool resides above the line, extended LPA can be used.

2 IPT Load Library SIQILOAD

This library can be placed in DD(ISPLLIB) or DD(STEPLIB).

3 CLIST Library SIQICLIB or SIQICLBV

Add the CLIST library to the DD(SYSPROC) concatenation. It is recommended that the ISPF Productivity Tool CLIST library be placed first in the concatenation.

4 Message Library SIQIMLIB

Add the message library to the DD(ISPMLIB) concatenation.

5 IPT panel library SIQIPLIB

Add the panel library to the DD(ISPPLIB) concatenation. It is recommended that ISPF Productivity Tool panel library be placed first in the concatenation.

Note: ISPF Productivity Tool performs its own panel processing optimization. However, you can pre-process other panel libraries in the concatenation.

If you have software packages that simulate allocations (like TSOPLUS, TSORX), do not use these to simulate the ISPF Productivity Tool panel library allocation to ISPPLIB.

6 Skeleton Library IQISLIB

Add the skeleton library to the DD(ISPSLIB) concatenation.

7 Table Library SIQITLIB

Add a new statement for the table library with DD(IQITLIB). Do not confuse this DD name with ISPF's ISPTLIB.

Creating ISPF Productivity Tool base (as delivered) environment

8 Utility work files

DD statements IQIUTIN, IQIUTOT, IQIUT03 and IQIUT04 are optional. If omitted, ISPF Productivity Tool dynamically allocates these files as temporary data sets, allocated to the UNIT name specified for allocating a new OLIST library (SYSALLDA by default).

9 Main panel

IQIPANEL is an optional DD statement. If specified, it provides the installation the ability to designate the name of the main panel that ISPF uses when ISPF, PDF, or ISPSTART is invoked without parameters. If any parameter (such as PANEL(name), PGM(xx), or CMD(xxx)) is specified, the IQIPANEL statement is ignored.

Example:

```
ALLOC DD(IQIPANEL) SHR DA('IQI.V5R10M0.SIQIPLIB(MYPRIM)')
```

ISPF Productivity Tool uses the member name specified with the DD name "IQIPANEL" as the name of the main panel to use, and MYPRIM as the default main panel name. The library used in the DD(IQIPANEL) is ignored; only the member name is inspected. The panel itself must reside in some library of the standard DD(ISPPLIB) concatenation.

In a common setup, the installation may have different main panels for different groups of users stored in one library concatenated to DD(ISPPLIB). The installation would then have a different IQIPANEL allocation for these groups, each having the appropriate member specified in the IQIPANEL allocation.

A special variation of IQIPANEL is a DD name IQIPANxx where xx stands for the current version of ISPF (namely IQIPAN59 for ISPF Version 5.9 and above). If ISPF Productivity Tool finds an IQIPANxx allocation, it overrides the IQIPANEL allocation. The purpose of the IQIPANxx allocation is to allow use of the same panel concatenation for different versions of ISPF.

10 SCLM activation DD name (optional)

ISPF Productivity Tool provides integrated SCLM support. If you choose to activate the ISPF Productivity Tool SCLM support for selected users, you need to allocate the DD(IQISCLM) for each user. This DD statement may specify a DUMMY file as follows:

```
//IQISCLM DD DUMMY
```

or

```
ALLOC DD(IQISCLM) DUMMY
```

The ISPF Productivity Tool base environment installation is now complete. You may start using the modified TSO LOGON procedure to run your ISPF under ISPF Productivity Tool control.

Note: To finish the full installation, you may need to further customize the ISPF Productivity Tool environment. The next two sections provide the detailed instructions.

Special purpose optional DD statements

You may optionally add these DD statements to the IPT logon procedure or dynamically allocate them before executing IPT, in order to affect the results of IPT initialization:

| **//STDISPF DD DUMMY**

| Causes IPT initialization to irrevocably pass control to ISPF without any
| remaining IPT functionality.

| **//IQICMDOF DD DUMMY**

| Causes IPT initialization to automatically issue an IPT CMDS OFF command
| to disable all command shortcuts specified in member IQIDCMDS of
| library SIQITLIB.

| **//IQIOFF DD DUMMY**

| Causes IPT initialization to automatically issue an IPT OFF command to
| disable normal IPT functionality. You subsequently activate all IPT
| functions by issuing a IPT ON (shortcut IPTON) command.

| **//IQIPANEL DD DISP=SHR,DSN=<PDS1ib>(<PanName>)**

| Causes IPT initialization to use PanName as the primary menu panel
| name.

| **Note:** The panel member must be found in the DD(ISPPLIB)
| concatenation.

| **//IQIPAN5x DD DISP=SHR,DSN=<PDS1ib>(<PanName>)**

| Causes IPT initialization to use PanName as the primary menu panel name
| for ISPF version 5.x.

| **Note:** The panel member must be found in the DD(ISPPLIB)
| concatenation.

| **Example:** IQIPAN56 will be in effect only when running IPT under z/OS
| v1.6 (with ISPF v5.6).

| **//IQISCLM DD DUMMY**

| When IPT is customized (see IQIWIZRD) to conditionally support SCLM,
| this DD statement will cause enablement of the IPT SCLM interface.

ISPF Productivity Tool single point of maintenance option

ISPF Productivity Tool is designed to be z/OS and ISPF release independent. It dynamically enables or disables any ISPF Productivity Tool functions that are dependent on certain z/OS or ISPF releases. As a result, you may consider maintaining a dedicated SMP/E global zone serving as a single point of ISPF Productivity Tool maintenance for all z/OS images of your enterprise.

Customizing the ISPF primary menu panel

The primary menu panel customization is totally optional since the entire ISPF Productivity Tool functionality is available from any panel by entering main commands such as: OLIST, EDIT, VIEW, BROWSE, TSO.

Modify the ISPF main menu. See Appendix D, "Sample modified main menu panel," on page 33 for a sample illustration. Changes to the main panel are made to a copy of your installation's main ISPF menu stored in the ISPF Productivity Tool panel library. In this way, the original panel is left intact and other users currently logged-on to ISPF Productivity Tool are not affected while the changes are being made. Perform the following procedure to modify the ISPF main menu:

1. Copy the panel to be changed (typically ISR@PRIM or ISR@MSTR) to the ISPF Productivity Tool panel library (IQI.V5R10M0.SIQIPLIB).
2. Invoke EDIT on the panel in the IPT panel library.

Customizing the ISPF primary menu panel

3. Change the title line to indicate that ISPF Productivity Tool is installed. For example, change the title

```
ISPF MAIN MENU
```

to

```
IPT/ISPF PRIMARY OPTION MENU
```

4. For consistency with other ISPF Productivity Tool panels, change the first five positions on the title line to the characters -IPT-.

Note: If the / character is defined as an attribute character, you may have to change the attribute character in the)ATTR section to another unused value and change the panel accordingly.

5. In the)PROC section, add the following line immediately after the) PROC line, starting in column 1:

```
&WTRAIL=TRUNC(&ZCMD, '.') &WTRAIL=.TRAIL "
```

6. Add a new menu option for OLIST (The Object List). In the body section, add a description line:

```
0 OLIST - IPT Object/Data Set List
```

7. Optionally add VIEW or BROWSE to the main menu.

The ISPF function that invokes VIEW (typically main option 1) is specified by the "PGM(ISRBRO)" statement in the)PROC section. ISPF Productivity Tool automatically traps this call and invokes either BROWSE or VIEW. The choice taken by ISPF Productivity Tool may be defined by the Customization Wizard or by each user through the IPT SET command. Also, in each of those cases ISPF Productivity Tool displays a Member Selection List (MSL) main menu in which the user may override the default function for selected members. If you still would like to explicitly define a separate option for VIEW (or BROWSE), in the body section, add a description line:

```
V VIEW - Display and optionally change source data or listing
```

8. In the)PROC section, add the following lines to the options:

```
V, 'PGM(IQIMSL) PARM(V,<PROMPT>) NEWAPPL(ISR) PASSLIB SCRNAME(VIEW)'  
0, 'PGM(IQIPLST) PARM(-,&WTRAIL) NEWAPPL(ISR) PASSLIB NOCHECK SCRNAME(OLIST)'
```

Note: Choose an unused option number or letter for V.

9. Add a line to the body area of the panel informing users that the ISPF Productivity Tool general commands (BROWSE, EDIT, VIEW, OLIST, and IPTHELP) are available on every ISPF panel. The ISPF Productivity Tool general commands are accessible from every panel without having to set up command table entries.

Customizing ISPF Productivity Tool

After verifying that the ISPF Productivity Tool base environment is fully operational, you should run the ISPF Productivity Tool Customization Wizard in order to customize or at least review all ISPF Productivity Tool installation settings. Perform the following steps to customize your ISPF Productivity Tool:

Step 1

Note: Customization Wizard CLIST %IQIWIZRD updates SIQIPLIB member IQIDFLTS and SIQITLIB member IQITSVAL. The original copies of these members can always be restored from the corresponding distribution libraries AIQIPLIB and AIQITLIB. Alternatively, you may save the current customization settings by

first copying those members into a backup source library. For more information about the customization wizard see Appendix I, “The customization wizard IQIWIZRD,” on page 45.

Logon to TSO using the modified LOGON procedure of your ISPF Productivity Tool base environment.

While in TSO READY mode, run the Customization Wizard by entering the following command:

```
%IQIWIZRD
```

Make sure that you have the following information available:

- The name of the ISPF Productivity Tool table library (for example, IQI.V5R10M0.SIQITLIB).
- The name of the ISPF Productivity Tool panel library (for example, IQI.V5R10M0.SIQIPLIB).

If you want PANVALET support using the PANVALET interface supplied with ISPF Productivity Tool:

- The name of the CA-PANVALET/ISPF source (not preprocessed) panel library.

The IQIWIZRD CLIST prompts for the name of your ISPF Productivity Tool table and panel libraries.

For the most part, the panels displayed by the Customization Wizard are self-explanatory. However, certain options require discussion. You can read about those options in the following sections or, if you prefer, you can proceed to “Step 2” on page 18.

IPT TSO shell

The IPT TSO shell keeps a history of TSO commands, CLISTs, or REXX EXECs issued by the user (up to 999) and displays them in the TSO Command Shell. For security reasons, you may want to exclude some commands from being recorded, for example, you may want to exclude commands that accept passwords in a visible form (“in the clear”). During customization, you are given the opportunity to add entries to a list of commands on which you specify whether recording is to be excluded. This allows you to turn recording on and off without removing entries from the list. If you turn off the recording, the list contains the PASSWORD and PROTECT commands with recording turned off when it is shipped.

The IPT TSO shell can be activated or deactivated by each user.

ISPF Productivity Tool Enhanced View Functionality

ISPF Productivity Tool offers enhancements to the VIEW function. You have a choice of SHARED VIEW and EXCLUSIVE VIEW modes, with the ability to enforce one of the two modes.

- **Shared VIEW:** VIEW that permits several users to work with the same file at the same time. Although this VIEW disables the SAVE command, a user can still save through the REPLACE command by using the same name of the member as a parameter to the REPLACE command.
- **Exclusive VIEW:** A VIEW that does ENQ on the file. Exclusive VIEW supports the SAVE command.

After choosing which view type to use as a default, you indicate whether users are permitted to override the default. If they can, the

Customizing ISPF Productivity Tool

browse/edit/view entry panels as well as the options displayed by the SET command include an option that allows the user to select his own view mode.

For more information about the differences between these two view modes, see “Shared and exclusive VIEW” in the *IPT User’s Guide*.

Registering Object Class Support

During the customization process you need to specify which object classes you want to support. For each object class, you must register the supporting product. Here are some of the supported objects and their registered products. See Appendix I, “The customization wizard IQIWIZRD,” on page 45 for the most up-to-date list of objects and interfaces.

Object Class: VSAM files

VSAM files supports the following products:

FileManager

IBM’s advanced data file browse/edit/report facility.

FileAid

The Customization Wizard provides support for FileAid Version 6 (and below), and for FileAid Version 7 through the DataXpert interface. The FileAid interface provides access to VSAM files through browse (option 1), edit (option 2), DSLIST (option 3.4), and from OLIST.

DataXpert

The DataXpert interface is similar to the FileAid interface.

Ditto IBM’s data file browse/edit/report facility.

MacKinney

ISPF Productivity Tool interfaces to the MacKinney VSAM utility.

Sample

ISPF Productivity Tool provides access to a sample VSAM browser that uses IDCAMS to browse VSAM files. This sample interface can be used to demonstrate the transparent interface to VSAM objects. The CLIST that is invoked for the sample VSAM browser can be used as template to write your own interface or provide support for a VSAM browsing product not listed here.

User-Written

In addition to the sample VSAM browser, you can request that ISPF Productivity Tool invoke the IPIVSAM CLIST whenever a VSAM object is selected for browse, edit, or view. This provides you with the ability to create your own interface, or interface to a product not listed above.

Object Class: Panvalet

It supports Panvalet/ISPF:

Panvalet/ISPF

Two types of interfaces are provided—a program interface, and a CLIST interface. The program interface is faster, but the CLIST interface provides the ability to modify the

interface (for example add LIBDEF statements) or to support other products that interface to Panvalet libraries.

Object Class: Librarian

Librarian supports CA-ELIPS.

CA-ELIPS

Similar to Panvalet ISPF, the librarian support provides a CLIST and a program interface.

Object Class: DB2

DB2 supports the following products:

CA-Pro-Edit

An interface to CA-Pro-edit is provided.

CA-Pro-Alter

ISPF Productivity Tool uses the same interface used for CA-Pro-Edit.

FileManager-DB2

IBM's advanced DB2 browse/edit/report facility.

RC/UPDATE

Support for the Platinum Technology RC/UPDATE.

FileAid/DB2

An interfaces to this product is provided.

CDB/EDIT

An interface to this product is supported.

Object Class: BOOK

BOOK supports IBM BookManager Book

IBM BookManager Book

An interface to IBM BookManager is provided.

Object Class: SHELF

SHELF supports IBM BookManager Shelf

IBM BookManager Shelf

An interface to IBM BookManager is provided.

Object Class: User-Objects

User-Objects supports User-Written.

User-Written

User-objects are installation defined. ISPF Productivity Tool invokes the CLIST/REXX exec or program of your choice to handle the user objects.

User-defined objects are specified with a leading greater-than sign (for example, >MYOBJECT)

A sample user-defined object interface is provided in CLIST IQI\$OUT. The defined object is a jobname, where the browse command is defined as browsing the held output, editing as editing the held output, and view is mapped into the job-status command. Another typical use is to define mail/messages as objects and provide interfaces to the mail system, where browse is defined as browsing the mail, and edit as creating/responding to mail.

Specifying SESSION EXIT

Customizing ISPF Productivity Tool

The Customization Wizard lets you specify a SESSION EXIT. The purpose of this exit is to provide you with the ability to invoke programs (or CLISTs, or REXX execs) at the time ISPF starts, or whenever a new split is started. Unlike ISPF's initialization exit, the ISPF Productivity Tool session exit supports dialog manager commands (ISPLINK/ISPEXEC). A typical exit may be used to invoke an e-mail program to retrieve user's messages. Another possibility is to use the session exit to allocate the OLIST library. (See sample CLISTs IQICRPLS and IQICRTBL in SIQICLIB library.)

COMPRESS Function Serialization Support

The Customization Wizard offers two types of serialization for the COMPRESS function. ISPF Productivity Tool supports the mode of operation called EXCLUSIVE CONTROL, which means it locks the user's access to the library to prevent any overlay when compressing a file.

ISPF Productivity Tool also supports an alternative approach called SHARED-WRITE. It allows compression of libraries shared among multiple ISPF users and avoid the MVS ENQ propagation problem.

When the Customization Wizard completes processing, it displays the message

```
INSTALLATION DEFAULTS WERE SAVED
```

If ISPF Productivity Tool is already activated, the changes affect all users who log on to ISPF Productivity Tool from this point on. Users already logged on are not affected until they log off and log on again.

Note: The installation default values are kept in the ISPF Productivity Tool panel and table libraries. If you use any caching mechanisms for these libraries (for example, VLF), you may have to refresh the look-aside buffers (for example, VLFNOTE) to reflect the changes.

Note: Most of these default values can be overridden by each user by using the IPT SET command, after which they are stored in the user's PROFILE library. As a result, users of prior ISPF Productivity Tool (or SPIFFY) releases may not be affected by any changes to those site-wide default settings.

Step 2 ISPF Productivity Tool supports a large number of products from other vendors. You need to review environmental requirements to see if you need to make any adjustments. See Appendix E, "ISPF Productivity Tool and other products," on page 35 for details.

Step 3 Make ISPF Productivity Tool available to users. To provide the LOGON procedure to users, copy or move the modified LOGON procedure back into the library from which users will access it.

Note: If you add a new LOGON procedure for existing users, you may have to use the TSO ACCOUNT command or your installation's security product, or both, to authorize the use of a new LOGON procedure.

ISPF Productivity Tool installation is complete. A TSO user who logs on to the modified LOGON procedure and enters ISPF operates under ISPF Productivity Tool. A new user of ISPF Productivity Tool sees the ISPF Productivity Tool tutorial

displayed before the main ISPF panel. You can press END (PF 3) to exit the tutorial. If you have modified the main menu panel, the modified panel is displayed.

When ISPF Productivity Tool starts, it checks for the presence of the DD(IQITLIB). If that DD is missing, ISPF Productivity Tool invokes standard ISPF and disable all ISPF Productivity Tool functions.

ISPF Productivity Tool general commands customization

This section explains how to customize the ISPF Productivity Tool commands that are dynamically defined to ISPF as general commands available from any panel.

ISPF Productivity Tool command shortcuts

There are 52 ISPF Productivity Tool command shortcuts that are normally defined as ISPF general commands. The verb of each of those commands can be either modified to a different (unique) command name or completely removed.

Member IQICMND5 of the IPT table library (SIQITLIB) controls all the necessary customization for ISPF Productivity Tool command shortcuts (see Appendix B, "Member IQICMND5," on page 29). It is delivered with commented (* in first column) statements for all supported command shortcuts.

To modify any shortcut, uncomment its entry and change the second and third tokens as follows:

- To completely disable a command shortcut, blank out second token (new verb) and third token (new shortcut).
- To just modify the verb of a particular command, replace the second token (new verb) and blank out the third token (new shortcut).
- To modify the verb and shortcut of a particular command, replace the second and third tokens as required.

For example:

- To disable the shortcut for command verb "EX9" specify a statement like
EX9
- To replace the verb and shortcut for command verb "EFILE" with "EVSAM" (the verb) and "EVS" (the shortcut), specify a statement like
EFILE EVSAM EVS

Note: Any valid changes to member IQICMND5 take effect the next time you logon to ISPF Productivity Tool and are reflected in the output of the IPT? command.

Note: If member IQICMND5 is found to have a syntax error during ISPF Productivity Tool initialization, the erroneous statement is skipped and user is notified with "User-specified command overrides error report placed in DD(IQILOGPR)". You should either remove or correct the statement in error.

Member IQIDCMDS of the IPT table library (SIQITLIB) controls the names of command shortcuts that can be dynamically disabled/enabled via the IPT CMDS (IPTCMD shortcut) command (see Appendix C, "Member IQIDCMDS," on page 31). It is delivered with the following command shortcut names: BR, ED, OL, VI. To include any other shortcut in this list, uncomment its entry in member IQIDCMDS.

ISPF Productivity Tool general commands customization

ISPF applications and ISPF Productivity Tool general commands

If an ISPF application invokes a main command with the name EDIT, BROWSE, VIEW, OLIST, QUIT or TSO, the ISPF Productivity Tool general command of that name is normally run, rather than the command of the application with the same name. You may handle this conflict in one of the following ways:

- Precede the command with a greater than (“>”) sign.

Example:

To have the command “EDIT” processed by an application rather than by ISPF Productivity Tool, enter the command:

```
>EDIT
```

- Disable the ISPF Productivity Tool command or commands within the application or applications in conflict.

Each ISPF Productivity Tool general command is controlled by a Dialog Manager variable:

Command	Variables
EDIT	&IPIGCOED
BROWSE	&IPIGCOBR
VIEW	&IPIGCOVI
OLIST	&IPIGCOPL
TSO	&IPIGCOTS
QUIT	&IPIGCOQT

If the variable is set to null (&Z), the general command is processed by ISPF Productivity Tool. If the variable is set to ‘PASSTHRU’, the general command is disabled, and is processed by the application.

To completely disable the IPT EDIT, BROWSE, and VIEW general commands, you must edit the first ISPF panel of the application as shown in the following examples:

To disable BROWSE as a ISPF Productivity Tool general command, modify the panel by entering the string:

```
)INIT  
&IPIGCOBR = 'PASSTHRU' /* DISABLE IPT BROWSE COMMAND FOR THIS  
PANEL */
```

To re-enable the BROWSE general command, modify the panel by entering the string:

```
)INIT  
&IPIGCOBR = 'PASSTHRU' /* DISABLE IPT BROWSE COMMAND FOR THIS  
PANEL */:
```

The ISPF Productivity Tool CLIST library contains an edit macro that automatically adds the control variables to the)INIT section of a panel. To disable one or more ISPF Productivity Tool general commands automatically, bring up the panel you want to modify in an EDIT session. On the command line, enter the command:

```
%IQUIGCMD
```

ISPF Productivity Tool general commands customization

This command inserts statements disabling all five ISPF Productivity Tool general commands into the)INIT section of the panel. You can delete any of the statements corresponding to commands that do not need to be disabled, and then save the panel.

To enable one or more ISPF Productivity Tool commands, follow the same procedure, but enter the command:

```
%IQIUGCMD ENABLE
```

If you want the commands to be enabled on exit rather than on entry to the panel, move the inserted statements from the)INIT section to the)PROC section. Delete the unneeded statements and then save the panel.

Note: If an application invokes ISPF EDIT or BROWSE (called by the ISPEXEC EDIT or ISPEXEC BROWSE service), the commands EDIT, BROWSE and VIEW are passed to the application, whose responsibility is to process these commands. If an application explicitly invokes IPT EDIT, BROWSE, or VIEW from an Application or CLIST), the commands EDIT, BROWSE, and VIEW are processed by ISPF Productivity Tool.

Migrating from IBM ISPF Productivity Tool Release 5.9

This section explains the activities involved in migrating an ISPF Productivity Tool release 5.9 environment into ISPF Productivity Tool release 5.10.

TSO LOGON procedure updates:

1. Ensure that all references to ISPF Productivity Tool target libraries in the various DD statements and CLISTs specify the selected names for ISPF Productivity Tool v5.10 target libraries. This includes such system library lists as LPA, LINKLIST, and APF.
2. Replace DD(IPITLIB) with DD(IQITLIB) for the SIQITLIB table library.
3. If present, replace DD(IPIPANEL) with DD(IQIPANEL) for specifying the ISPF primary menu panel name.

Run IQIWIZRD customization wizard:

1. Determine all required existing and additional IPT customization.

Note: You may first run the IPT v5.9 wizard (IQIWIZRD) under IPT v5.9 in order to determine all your previously selected customization options.

2. Execute the IPT v5.10 customization wizard under control of the IPT v5.10 logon procedure and specify all previously selected settings and any new required options.
3. Place all customized CLISTs for supported objects or Session- Initialization-Exit in the ISPF Productivity Tool v5.10 SIQICLIB and SIQICLBV libraries.

Command shortcuts customization:

- Review for conflicts and update, if necessary, members IQICMNDs and IQIDCMDs of the SIQITLIB library in order to disable or rename certain command shortcut verb names.

Migrating from IBM ISPF Productivity Tool Release 5.8

This section explains the activities involved in migrating an ISPF Productivity Tool release 5.8 environment into ISPF Productivity Tool release 5.10.

TSO LOGON procedure updates:

ISPF Productivity Tool general commands customization

1. Ensure that all references to ISPF Productivity Tool target libraries in the various DD statements and CLISTs specify the selected names for ISPF Productivity Tool v5.10 target libraries. This includes such system library lists as LPA, LINKLIST, and APF.
2. Replace DD(IPITLIB) with DD(IQITLIB) for the SIQITLIB table library.
3. If present, replace DD(IPIPANEL) with DD(IQIPANEL) for specifying the ISPF primary menu panel name.
4. If present, replace DD(IPISCLM) with DD(IQISCLM) for activating ISPF Productivity Tool SCLM support.
5. If present, replace DD(IPIUTIN,IPIUTOT,IPIUT03,IPIUT04) with DD(IQIUTIN,IQIUTOT,IQIUT03,IQIUT04) for utility work files.
6. For all ISPF primary menu panels that include ISPF Productivity Tool related options, replace module name prefix IPI with IQI. For example, OLIST function main module IPIPLST is now called IQIPLST, while MSL function main module IPIMSL is now called IQIMSL.

Note: With command shortcuts you may consider to remove altogether any ISPF Productivity Tool related primary menu options.

Run IQIWIZRD customization wizard:

1. Determine all required existing and additional IPT customization.

Note: You may first run the IPT v5.8 wizard (SPFEWIZ) under IPT v5.8 in order to determine all your previously selected customization options.

2. Execute the IPT v5.10 customization wizard under control of the IPT v5.10 logon procedure and specify all previously selected settings and any new required options.
3. Place all customized CLISTs for supported objects or Session- Initialization-Exit in the ISPF Productivity Tool v5.10 SIQICLIB and SIQICLBV libraries.

Command shortcuts customization:

- Review for conflicts and update, if necessary, members IQICMNDs and IQIDCMDs of the SIQITLIB library in order to disable or rename certain command shortcut verb names.

Migrating from Isogon SPIFFY Release 5.7

This section explains the activities involved in migrating a SPIFFY release 5.7 (and 5.6) environment into ISPF Productivity Tool release 5.9.

TSO LOGON procedure updates:

1. Ensure that all references to ISPF Productivity Tool target libraries in the various DD statements and CLISTs specify the selected names for ISPF Productivity Tool v5.10 target libraries. This includes such system library lists as LPA, LINKLIST, and APF.
2. Replace DD(IPITLIB) with DD(IQITLIB) for the SIQITLIB table library.
3. If present, replace DD(IPIPANEL) with DD(IQIPANEL) for specifying the ISPF primary menu panel name.
4. If present, replace DD(IPISCLM) with DD(IQISCLM) for activating ISPF Productivity Tool SCLM support.
5. If present, replace DD(IPIUTIN,IPIUTOT,IPIUT03,IPIUT04) with DD(IQIUTIN,IQIUTOT,IQIUT03,IQIUT04) for utility work files.

ISPF Productivity Tool general commands customization

6. For all ISPF primary menu panels that include ISPF Productivity Tool related options, replace module name prefix IPI with IQI. For example, OLIST function main module IPIPLST is now called IQIPLST, while MSL function main module IPIMSL is now called IQIMSL.

Note: With command shortcuts you may consider to remove altogether any ISPF Productivity Tool related primary menu options.

Run IQIWIZRD customization wizard:

1. Determine all required existing and additional IPT customization.

Note: You may first run the SPIFFY v5.7 wizard (SPFEWIZ) under SPIFFY v5.7 in order to determine all your previously selected customization options.

2. Execute the IPT v5.10 customization wizard under control of the IPT v5.10 logon procedure and specify all previously selected settings and any new required options.
3. Place all customized CLISTs for supported objects or Session- Initialization-Exit in the ISPF Productivity Tool v5.10 SIQICLIB and SIQICLBV libraries.

Command shortcuts customization:

- Review for conflicts and update, if necessary, members IQICMND and IQIDCMD of the SIQITLIB library in order to disable or rename certain command shortcut verb names.

ISPF Productivity Tool Persistent-Table-Library and Permanent OLIST consolidation:

- This may be an opportunity to consolidate those two personal-use libraries into a single PDSE library conveniently named <user-id>.PLIST.LIBRARY (where <user-id> is the TSO user-id). You may create for this purpose a CLIST that incorporates the following steps:
 1. Rename (if exists) <user-id>.PLIST.LIBRARY to <user-id>.PLIST.LIBRARY.OLD
 2. Create (allocate) a new PDSE named <user-id>.PLIST.LIBRARY using the recommended data set attributes.
 3. Copy <user-id>.PLIST.LIBRARY.OLD into <user-id>.PLIST.LIBRARY

TSO Shell command lists migration: Before ISPF Productivity Tool (and SPIFFY) v5.8, the SPIFFY TSO shell command lists were only saved in the user PROFILE library as:

- Eight TSO command history entries numbered 1 to 8
- Eight TSO permanent command entries numbered 9 to 16.

For compatibility reasons, those 16 command entries are copied into the ISPF Productivity Tool TSO shell command History-List and Permanent-List with identical entry numbers. Likewise, upon a normal ISPF Productivity Tool termination, command History-List rows 1 to 8 and Permanent-List rows 9 to 16 are saved (like before) in the user PROFILE.

Note: Both complete lists are always stored in the Persistent-Table-Library.

ISPF Productivity Tool maintenance

ISPF Productivity Tool maintenance is fully controlled by SMP/E. You should periodically review and apply all available maintenance as posted on the IBM ISPF Productivity Tool web-site at <http://www-306.ibm.com/software/awdtools/ispfproductivitytool/support/>

To determine the maintenance level of ISPF Productivity Tool at your installation, enter the following command on any ISPF Productivity Tool panel:

```
IPT VER
```

or shortcut IVER.

The initial screen displays the range of installed APARs. The scrollable list displays the date and maintenance level of each ISPF Productivity Tool module.

Maintenance-specific commands

ISPF Productivity Tool Release 5.9 has a set of diagnostic commands that can help IBM support personnel perform problem investigations.

The commands related to maintenance are as follows:

- MAINT
- VER
- DIAG
- SNAP

These commands are invoked from any main command line of any panel. Each of them is prefixed with ISPF Productivity Tool.

Examples:

```
IPT MAINT  
IMAIN
```

The following explains each of these commands and how to use them.

IPT MAINT

MAINT creates a report that contains information such as applied APARS, current ISPF Productivity Tool version levels, and module versions. This report should normally be sent with any ISPF Productivity Tool problem report ticket (PMR).

You may enter the command IPT MAINT (shortcut IMAINT) from the main command line of any panel. It creates an “IPT Maintenance Report” in SYSOUT data set DD(IQILOGPR) of your TSO session.

IPT VER

This command displays the “IPT Maintenance Report” on your screen. You may enter the command IPT VER (shortcut IVER) from the main command line of any panel.

IPT DIAG

The IPT DIAG command (shortcut IDIAG) lets you turn on the ISPF Productivity Tool tracing and function logging facility. By default ISPF Productivity Tool runs with the tracing facility disabled.

Occasionally, IBM support may ask you to run a failing scenario while the ISPF Productivity Tool tracing facility is active.

IPT SNAP

The IPT SNAP command (shortcut ISNAP) provides you a snapshot of the current ISPF Productivity Tool in-core trace table (if active) or of the entire region of your TSO session.

Typically, when IBM support asks to run with ISPF Productivity Tool trace active, you are also asked to issue a SNAP command at the end of the failing scenario in order to output the in-core data into DD(IQITRSNP) of your TSO session so that it can be sent to IBM for further analysis.

Bypassing ISPF Productivity Tool (invoking standard ISPF)

When ISPF Productivity Tool runs in batch, it automatically passes control to ISPF as if ISPF Productivity Tool were not installed.

Sometimes you may want to invoke ISPF directly without the ISPF Productivity Tool environment. There are several ways to invoke standard ISPF without ISPF Productivity Tool. Use one of the following methods to accomplish this task:

- Invoke ISPF (or PDF or ISPSTART) with the additional parameter STDISPF.

Example:

```
ISPF STDISPF
```

or

```
ISPF 2 STDISPF
```

- If you want to restrict a user to standard ISPF automatically, do not allocate IQITLIB to the user. If IQITLIB is not allocated, standard ISPF is invoked.
- If a group of users are sharing a procedure that allocates IQITLIB, you can still restrict a particular user to standard ISPF by adding a dummy DD name to the user's LOGON procedure. Add the DD name STDISPF as follows:

```
ALLOC DD(STDISPF) DA('NULLFILE')
```

ISPF Productivity Tool ignores the data set name and inspects only the DD name.

- Standard ISPF can also be invoked through its entry points ISRPCP or ISPICP:

```
ISPICP PANEL(ISR@PRIM)
```

or

```
ISRPCP
```

Appendix A. The installation tape

The product distribution tape contains the following files in JES2 XMIT format. The file attributes are those of the resulting files when loaded onto disk and processed by the TSO RECEIVE command.

File	Library
Relative File 1	AIQIINST library: JCL and other members required to install and maintain IPT File name: IBM.HIQI5A0.F1.XMIT RECFM=FB, LRECL=80, BLKSIZE=8800
Relative File 2	AIQICLIB CLIST library: CLISTs used by IPT in fixed-length format File name: IBM.HIQI5A0.F2.XMIT RECFM=FB, LRECL=80, BLKSIZE=8800
Relative File 3	AIQICLBV library: same as File 2, but in variable-length format File name: IBM.HIQI5A0.F3.XMIT RECFM=VB, LRECL=251, BLKSIZE=8800
Relative File 4	AIQILOAD library: IPT load modules for private use File name: IBM.HIQI5A0.F4.XMIT RECFM=U, LRECL=0, BLKSIZE=6144
Relative File 5	AIQILPA library: IPT load modules for LPA File name: IBM.HIQI5A0.F5.XMIT RECFM=U, LRECL=0, BLKSIZE=6144
Relative File 6	AIQIMLIB IPT message library File name: IBM.HIQI5A0.F6.XMIT RECFM=FB, LRECL=80, BLKSIZE=8800
Relative File 7	AIQIPLIB IPT panel library File name: IBM.HIQI5A0.F7.XMIT RECFM=FB, LRECL=80, BLKSIZE=8800
Relative File 8	AIQISLIB IPT skeleton library File name: IBM.HIQI5A0.F8.XMIT RECFM=FB, LRECL=80, BLKSIZE=8800
Relative File 9	AIQITLIB IPT ISPF table library File name: IBM.HIQI5A0.F9.XMIT RECFM=FB, LRECL=80, BLKSIZE=8800

The installation tape

Appendix B. Member IQICMNDS

This member is delivered in the ISPF Productivity Tool table library (SIQITLIB). All entries are initially commented out (* in column 1).

```
*-----*
*  IBM ISPF Productivity Tool                               *
*  5698-A81 (C) Copyright IBM Corp. 1989,2008. All rights reserved. *
*-----*
*
*-----*
*              Main Command Substitution Table              *
*              =====*
*
* This member contains user-defined substitutions to all IPT standard *
* main commands that are inserted into the ISPF command table.      *
* There are only 2 types of lines:                                   *
*@* Comment line - any non-action text.                             *
*   Starts with "*" in column 1.                                     *
*@* Substitution line - specifies an IPT main command substitution.  *
*   Starts with " ", ",", or an alphabetic character in column 1.   *
* Note: each substitution statement is initially commented out!     *
*
*              Substitution Line Syntax                       *
*              -----*
* Free form positional tokens delimited by any number of:          *
* blanks (" ") and or commas (",") up to and including column 72.  *
* In-line comment starts with " *" until end of line.              *
* Each record may contain only a single line (no continuation).    *
*
*              Substitution Line Positional Tokens           *
*              -----*
*#1) IPT delivered main command verb name.                          *
*#2) Customer specified verb name substitution.                     *
*#3) Customer specified command shortcut substitution.              *
*
*              Substitution Line Rules                        *
*              -----*
*@* Minimum token length is 2. This is the minimum length for IPT  *
*   main command verbs and shortcuts.                               *
*@* Token-1 is mandatory and must match an IPT command verb.      *
*@* If only Token-1 is present, the IPT command gets disabled.     *
*@* If there are multiple substitution lines with identical Token-1, *
*   only the last one takes effect.                                 *
*@* If there are multiple substitution lines with identical Token-2, *
*   only the first one takes effect.                               *
*@* If Token-3 is present, it must be a valid prefix of the verb   *
*   name specified in Token-2.                                     *
*
*              Examples                                       *
*              -----*
* " BROWSE, EXAMINE, EXAM "                                         *
* meaning: substitute verb "BROWSE" with verb "EXAMINE" and shortcut *
*   "EXAM".                                                         *
*
* " QUIT   GIVEUP "                                                *
* meaning: substitute verb "QUIT" with verb "GIVEUP" with no shortcut.*
*
* " EX8           "                                                *
* meaning: disable command verb "EX8".                               *
*-----*
*
*VERB      NEW VERB SHORTCUT   *COMMENT
```

Member IQICMND5

```

*-----
*IPT????? IPT????? IPT?      *DISPLAY IPT SHORTCUTS
*IPTHELP IPTHELP IPT          *IPT HELP
*IPTOFF IPTOFF IPTOF          *DISABLE IPT
*IPTON IPTON IPTON            *ENABLE IPT
*IPTCMDS IPTCMDS IPTCMD       *DISABLE/ENABLE IPT SHORTCUTS
*IDIAG IDIAG IDIAG            *IPT DIAGNOSTICS
*ISET ISET ISET                *IPT SET OPTIONS
*ISNAP ISNAP ISNAP            *IPT SNAP
*IMAINT IMAINT IMAINT         *IPT MAINTENANCE REPORT
*IVERSION IVERSION IVER       *IPT VERSION REPORT
*BROWSE BROWSE BR              *BROWSE DATA-SET
*EDIT EDIT ED                  *EDIT DATA-SET
*VIEW VIEW VI                  *VIEW DATA-SET
*BFILE BFILE BF                *BROWSE VSAM FILE
*EFILE EFILE EF                *EDIT VSAM FILE
*VFILE VFILE VF                *VIEW VSAM FILE
*O* O* O*                      *SHOW ALL PERMANENT OBJECT-LISTS
*/ */ */                       *POPULATE A NEW OBJECT-LIST
*OHIST OHIST OH                *DISPLAY HISTORY LIST OF ACCESSED DATASETS
*OLIST OLIST OLIS              *DISPLAY OBJECT-LIST
*OL OL OL                       *DISPLAY OBJECT-LIST
*OL* OL* OL*                   *SHOW ALL PERMANENT OBJECT-LISTS
*OL/ OL/ OL/                   *POPULATE A NEW OBJECT-LIST
*OLDDNAME OLDDNAME OLDD        *DISPLAY ALLOCATED DATASETS BY DDNAME
*OLBASE OLBASE OLB             *LISTCAT BASE OF GENERATION
*OLBK OLBK OLBK                *LISTCAT BOOKMANAGER BOOKS
*OLBOOK OLBOOK OLBO          *LISTCAT BOOKMANAGER BOOKS
*OLCAT OLCAT OLC               *LISTCAT MULTIPLE PATTERNS
*OLE OLE OLE                   *LISTCAT PDSE LIBRARIES
*OLPDSE OLPDSE OLPDSE          *LISTCAT PDSE LIBRARIES
*OLGDG OLGDG OLG               *LISTCAT GDG DATASETS
*OLHIST OLHIST OLH             *DISPLAY HISTORY LIST OF ACCESSED DATASETS
*OLINFO OLINFO OLI             *LISTCAT + INFO
*OLMIG OLMIG OLM               *LISTCAT MIGRATED
*OLPAGE OLPAGE OLP             *LISTCAT PAGE-SPACE DATASETS
*OLSHELF OLSHELF OLSH          *LISTCAT BOOKMANAGER SHELVES
*OLSYS OLSYS OLS               *LIST SYSTEM DATASETS
*OLTAPE OLTAPE OLT             *LISTCAT TAPE DATASETS
*OLVTOC OLVTOC OLV             *LISTVTOC DATASETS
*OLVSAM OLVSAM OLVS            *LISTCAT VSAM CLUSTERS
*OLZONE OLZONE OLZ            *LISTCAT SMP/E ZONES
*EX?????? EX?????? EX?        *DISPLAY TSO PERMANENT COMMANDS
*EX= EX= EX=                   *DISPLAY TSO MOST RECENT COMMAND
*EX1 EX1 EX1                   *EXECUTE TSO PERMANENT COMMAND #1
*EX2 EX2 EX2                   *EXECUTE TSO PERMANENT COMMAND #2
*EX3 EX3 EX3                   *EXECUTE TSO PERMANENT COMMAND #3
*EX4 EX4 EX4                   *EXECUTE TSO PERMANENT COMMAND #4
*EX5 EX5 EX5                   *EXECUTE TSO PERMANENT COMMAND #5
*EX6 EX6 EX6                   *EXECUTE TSO PERMANENT COMMAND #6
*EX7 EX7 EX7                   *EXECUTE TSO PERMANENT COMMAND #7
*EX8 EX8 EX8                   *EXECUTE TSO PERMANENT COMMAND #8
*EX9 EX9 EX9                   *EXECUTE TSO PERMANENT COMMAND #9
*
*-----*
* IBM ISPF Productivity Tool *
* 5698-A81 (C) Copyright IBM Corp. 1989,2008. All rights reserved. *
*-----*

```

Appendix C. Member IQIDCMDS

This member is delivered in the ISPF Productivity Tool table library (SIQITLIB). The following command shortcuts are initially specified to be affected by the IPT CMDS command: BR ED OL VI.

```
*-----*
*  IBM ISPF Productivity Tool                               *
*  5698-A81 (C) Copyright IBM Corp. 1989,2008. All rights reserved. *
*-----*
*
*-----*
*                Command Shortcuts Disable/Enable Table      *
*                =====*
*
* This member contains names of IPT command shortcuts that will be *
* affected by the "IPT CMDS OFF/ON" (or "IPTCMD OFF/ON") command. *
* There are only 2 types of lines:                             *
*@* Comment line - any non-action text.                       *
*   Starts with "*" in column 1.                              *
*@* Command line - specifies an IPT command shortcut name.   *
*   Starts with " " or an alphabetic character in column 1.  *
*
*                Restrictions                                 *
*                -----*
* Command shortcuts names starting with "IPT" can not be disabled. *
*
*                IQICMNS and IQIDCMDS Relationship           *
*                -----*
* The command shortcut names specified in this table apply to the *
* modified (via IQICMNS) command shortcut names.              *
*
*                IQIDMNS Default Setting                    *
*                -----*
* This table currently specifies the following affected shortcuts: *
* BR, ED, VI, OL.                                           *
*
*
*SHORTCUT  *COMMENT
*-----*
*IDIAG     *IPT DIAGNOSTICS
*ISET      *IPT SET OPTIONS
*ISNAP     *IPT SNAP
*IMAIN     *IPT MAINTENANCE REPORT
*IVER      *IPT VERSION REPORT
  BR       *BROWSE DATA-SET
  ED       *EDIT DATA-SET
  VI       *VIEW DATA-SET
*BF        *BROWSE VSAM FILE
*EF        *EDIT VSAM FILE
*VF        *VIEW VSAM FILE
*O*        *SHOW ALL PERMANENT OBJECT-LISTS
*/         *POPULATE A NEW OBJECT-LIST
*OH        *DISPLAY HISTORY LIST OF ACCESSED DATASETS
*OLIS      *DISPLAY OBJECT-LIST
  OL       *DISPLAY OBJECT-LIST
*OL*       *SHOW ALL PERMANENT OBJECT-LISTS
*/         *POPULATE A NEW OBJECT-LIST
*OLDD      *DISPLAY ALLOCATED DATASETS BY DDNAME
*OLB       *LISTCAT BASE OF GENERATION
*OLBK      *LISTCAT BOOKMANAGER BOOKS
*OLBO      *LISTCAT BOOKMANAGER BOOKS
*OLC       *LISTCAT MULTIPLE PATTERNS
```

Member IQIDCMDS

```
|
| *OLE *LISTCAT PDSE LIBRARIES
| *OLPDSE *LISTCAT PDSE LIBRARIES
| *OLG *LISTCAT GDG DATASETS
| *OLH *DISPLAY HISTORY LIST OF ACCESSED DATASETS
| *OLI *LISTCAT + INFO
| *OLM *LISTCAT MIGRATED
| *OLP *LISTCAT PAGE-SPACE DATASETS
| *OLSH *LISTCAT BOOKMANAGER SHELVES
| *OLS *LIST SYSTEM DATASETS
| *OLT *LISTCAT TAPE DATASETS
| *OLV *LISTVTOC DATASETS
| *OLVS *LISTCAT VSAM CLUSTERS
| *OLZ *LISTCAT SMP/E ZONES
| *EX? *DISPLAY TSO PERMANENT COMMANDS
| *EX= *DISPLAY TSO MOST RECENT COMMAND
| *EX1 *EXECUTE TSO PERMANENT COMMAND #1
| *EX2 *EXECUTE TSO PERMANENT COMMAND #2
| *EX3 *EXECUTE TSO PERMANENT COMMAND #3
| *EX4 *EXECUTE TSO PERMANENT COMMAND #4
| *EX5 *EXECUTE TSO PERMANENT COMMAND #5
| *EX6 *EXECUTE TSO PERMANENT COMMAND #6
| *EX7 *EXECUTE TSO PERMANENT COMMAND #7
| *EX8 *EXECUTE TSO PERMANENT COMMAND #8
| *EX9 *EXECUTE TSO PERMANENT COMMAND #9
| *
| *-----*
| * IBM ISPF Productivity Tool *
| * 5698-A81 (C) Copyright IBM Corp. 1989,2008. All rights reserved. *
| *-----*
```

Appendix D. Sample modified main menu panel

During the ISPF Productivity Tool installation process, you modified the ISPF main menu. The following sample shows the modified sections of panel member ISR@PRIM from ISPF's panel target library SISPPENU:

```
)BODY CMD(ZCMD)
.. Menu. Utilities. Compilers. Options. Status. Help.
-----
.-IPT-                .IPT/ISPF Primary Option Menu.
.Option ==>.Z
.SAREA39                ..GRPBOX1
.                        ...TMPROWS,TMPSHDW ..
.                        ... ..
.                        ... ..
.                        ... ..
.                        ... ..
.                        ... ..
.                        ... ..
.                        ... ..
.                        ... ..
.                        ... ..
.                        ... ..
.                        ... ..
.                        ... ..
.                        ... ..
.                        .....
.ZEXI..
.      .Enter.Z.to Terminate using log/list defaults.
.      .BROWSE EDIT VIEW OLIST TSO IPT IPT?.are available from any panel.
)AREA SAREA39
.0 .Settings      .Terminal and user parameters
.1 .Browse        .Display source data or listings
.V .View          .Display/change source data
.2 .Edit          .Create or change source data
.3 .Utilities     .Perform utility functions
.4 .Foreground    .Interactive language processing
.5 .Batch         .Submit job for language processing
.6 .Command       .Enter TSO or Workstation commands
.7 .Dialog Test   .Perform dialog testing
.9 .IBM Products .IBM program development products
.10.SCLM          .SW Configuration Library Manager
.11.Workplace     .ISPF Object/Action Workplace
.0 .Olist         .IPT Object/Data set list

)PROC
&WTRAIL=TRUNC(&ZCMD,'.') &WTRAIL=.TRAIL
IF (&ZCSTF='1') .ATTR(GRPBOX1) = 'WIDTH(0)'
IF (.CURSOR = TMPROWS AND &ZCMD = ' ')
  &ZSAR =TRANS(&ZSCREEN 1,&ZSAREA1 2,&ZSAREA2 3,&ZSAREA3 4,&ZSAREA4 *,&ZSAREA5)
  IF (&ZSAR = 'CAL','UPS','SES') &ZCMD = 'SP'
&ZCMDWRK = &Z
IF (&ZCMD = &Z)
  &ZCMDWRK = TRUNC(&ZCMD,'.')
  &ZTRAIL=.TRAIL
  IF (&ZCMDWRK = &Z)
    .MSG = ISRU000
&ZSEL = TRANS (TRUNC (&ZCMD,'.')
0,'PGM(ISPISM) SCRNAME(SETTINGS)'
1,'PGM(ISRBRO) PARM(ISRBRO01) SCRNAME(BROWSE)'
V,'PGM(IQIMSL) PARM(V,<PROMPT>) SCRNAME(VIEW)'
2,'PGM(ISREDIT) PARM(P,ISREDM01) SCRNAME(EDIT)'
3,'PANEL(ISRUTIL) SCRNAME(UTIL)'
4,'PANEL(ISRFPA) SCRNAME(FOREGND)'
5,'PGM(ISRJB1) PARM(ISRJPA) SCRNAME(BATCH) NOCHECK'
```

Appendix E. ISPF Productivity Tool and other products

While ISPF Productivity Tool enhances ISPF functions, it works with other products. This section explains how you should customize ISPF Productivity Tool if you have other products in your system.

Security packages (RACF, ACF2, TOP SECRET)

ISPF Productivity Tool uses only documented system interfaces and does not bypass any standard security mechanisms that may be used by your installation. As a general rule, ISPF Productivity Tool does not require any change in the authorization rules you have already established for ISPF. Users should read authority for the libraries concatenated in the LOGON procedure.

Some security products, for example, ACF2 and Top Secret, control the commands that TSO users or ISPF users are allowed to issue. If access to any ISPF Productivity Tool command (for example, IPT or MSL) is denied, they must be added to the list of allowable commands.

Program pathing

Some security packages offer the option of access to certain files only through restricted lists of programs, and sometimes only if the program names come from a particular library or calling path. The following paragraphs describes the program structure in ISPF Productivity Tool so that you can inform your security package appropriately.

If a user is invoking standard ISPF, the task structure is unchanged. If ISPF Productivity Tool is active, ISPF, ISPSTART, and PDF are aliases of ISPF Productivity Tool that are attached by the TMP. Internally, they reattach ISPF Productivity Tool. ISPF Productivity Tool then attaches ISRPCP (an entry point to ISPF itself). The following diagram illustrates this relationship:

ISRPCP (an alias of the IBM-supplied ISPF) starts ISPF normally, and then links to module IQIITH, which in turn displays the main panel or invokes the program or CLIST entered on the ISPF/PDF/ISPSTART command line.

When the user selects option 1 (BROWSE), 2 (EDIT), or 6 (TSO), ISPF Productivity Tool uses its own versions of ISRBRO, ISREDIT, and ISRPTC as follows:

Note: None of the ISPF Productivity Tool programs run in authorized mode.

User option	Original IFPF Module	IPT replacement
1 (BROWSE)	ISRBRO	IQIMSL
2 (EDIT)	ISREDIT	IQIMSL
6 (TSO)	ISRPTC	IQITSO

ACF2

You need to customize ISPF Productivity Tool under ACF2. Customization of ISPF Productivity Tool depends on the following factors:

- The security features of ACF2 you use
- Where you want to place the ISPF Productivity Tool load modules
- What level of ACF2 you have installed.

Perform the following procedure to customize ISPF Productivity Tool as needed:

1. If your security specifications include a list of TSO commands that users are allowed to run, add the following commands to that list: IQIMAIN, IQIEXPN, ISPICP and ISRPCP.
2. Determine whether your installation uses program pathing rules that apply to the ISPF environment. If not, your installation of ISPF Productivity Tool under ACF2 is complete.
3. Consider whether it is acceptable to bypass some program path checking by specifying PATH(IGNORE) in the access rules. If you do so, your installation of ISPF Productivity Tool under ACF2 is complete.
4. Determine the GEN level of your ACF2 installation. If you have a GEN level below 9208, apply APARs TW95948 and TW95931 to CSECT ACF99@RB.
5. Apply USERMOD UM95948 to ACF99@RB.
6. If you do not require that the ISPF Productivity Tool load modules reside in a trusted library, add the NOSYSLIB keyword to the @RB macro definitions of the commands IQIMAIN, ISPF, PDF, and ISPSTART in ACF99@RB. Once you do so, your installation of ISPF Productivity Tool under ACF2 is complete.
7. If the ISPF Productivity Tool load modules are not in LPALIB or another system library, specify both the ISPF Productivity Tool LPA library and the IPT LOAD library in IEAAPFxx (in PARMLIB).

Note: MVS removes the authorization from the STEPLIB libraries if the STEPLIB includes the concatenation of any library that is not APF-authorized. If the ISPF Productivity Tool libraries are in STEPLIB and you have not specified NOSYSLIB for the ISPF Productivity Tool commands, make sure that all your STEPLIB libraries are marked as APF-authorized.

8. If the IBM commands ISPF, PDF, and ISPSTART are defined in member IKJTSoxx (in PARMLIB), define the command IQIMAIN in the same way. (If you are using an older version of TSO that uses CSECTs IKJEFTE2 and IKJEFTE8 instead of IKJTSoxx, include the command IPT in these CSECTs as you have included ISPF, PDF, and ISPSTART.) Once you do so, your installation of ISPF Productivity Tool under ACF2 is complete.

TSO dynamic STEPLIB facility

The TSO Dynamic STEPLIB Facility can be used instead of the DD names STEPLIB and ISPLLIB in the TSO logon procedure to point to the IPT LPA load library (SIQILPA) and the IPT load library (SIQILOAD).

Products with direct directory update protection

Some products (such as MIM-Multi-Image Manager) control which programs are allowed to update a library directory directly. The ISPF Productivity Tool command EXPDIR invokes such a program. To permit EXPDIR to work, you must add the name of the module it invokes, IQIEXDIR, to the list of programs that are authorized to update directory entries.

PDSMAN

PDSMAN sometimes dynamically alters directory update requests in a nonstandard way. If you indicated during ISPF Productivity Tool installation that PDSMAN is installed and also specified a member name to ignore (such as \$\$\$SPACE), the EXPDIR command is handled by a CLIST named IQIXPDSM. See the documentation included in member IQIXPDSM of ISPF Productivity Tool CLIST library (SIQICLIB) for how to enable it to use the PDSMAN ALTERDIR statement, or to entirely disable the EXPDIR command.

File transfer programs

Some file transfer programs expect ISPF option 6 (TSO) to display a panel with only one input field. The ISPF Productivity Tool TSO Command Shell enhances ISPF option 6 in a number of ways, modifying the panel in a way that causes some of these programs to fail. To access the original ISPF option 6 panel for use with a file transfer program, a user can enter the following command from any panel:

```
TSO /IS
```

or

```
TSO -TSO
```

The user can also enter the command /IS on the command line of the TSO Command Shell. Users can turn off the ISPF Productivity Tool TSO Command Shell and use the ISPF TSO shell instead.

If you have a workstation connection through the ISPF workstation program, you can use the OLIST XFER line command instead of your file transfer program.

Appendix F. OLIST reference list

You can get a reference list of OLISTs by blanking out the name of the OLIST currently on display and pressing ENTER or, on any panel entering the command
OLIST *

(shortcuts O* and OL*).

The OLIST reference list only contains OLISTs that the user has created or invoked. When you copy OLIST members from other OLIST libraries into your active OLIST library, you must first validate and register such copied members before they can be used as OLISTs. To do so, a user should enter the following command when the OLIST reference list is on display:

VALIDATE

Once the user references a shared OLIST, it appears on that user's OLIST reference list.

Note: If the first line of the OLIST is a comment line (a line that starts with an exclamation mark), that comment appears as the description of the OLIST in the OLIST reference list.

OLIST reference list

Appendix G. Supported objects

The following table lists the objects supported by every ISPF Productivity Tool function:

Object type	Object identification	Supported product	Example
Sequential, PDS data sets	Standard data set syntax	None needed, built-in support.	ACCOUNTS.PAYABLE.COBOL PAYROL.NORtheast.TRANS
VSAM files	Standard data set syntax	FileManager, FileAid, Data-Xpert, Ditto, MacKinney VSAM utility, a sample browser. Open architecture supports installation written agents.	ACCOUNTS.MASTER.DATA
Panvalet or Librarian files	Standard data set syntax (requires OLE link during installation).	Panvalet-ISPF, Librarian ELIPS, and installation written interfaces.	TAXES.MASTER.SOURCE
DB2 tables	a leading hyphen (not part of the table name)	RC-UPDATE, PRO-EDIT, PRO-ALTER, CDB-EDIT, FileAid-DB2, and installation written interfaces.	-ACCOUNTS.PAYABLE.NORTH
DD NAMES	@DD. followed by a DDNAME	None needed, built-in support.	@DD.STEPLIB @DD.ISPPLIB.#2
SCLM hierarchies	Leading less-than sign	None needed, built-in support.	<PROJECT.DEVGROUP.TYPE
DSLIS or OLIS entries	Data set level with patterns (% or * included in the name)	None needed, built-in support.	SYS1.*LIB
z/OS UNIX System Services files	Leading forward slash, tilde or dot (not part of the name)	Automatically supported for MVS system that support z/OS UNIX System Services	/ROOT/TEST/ACCOUNTS-PAY/AP.C
z/OS UNIX System Services files	Leading right parenthesis (not part of the name)	None needed, built-in support.)/samples/compile.c
PC File names	Name enclosed in double quotation marks		"C:\WINDOWS\SYSTEM\SPFE5.DLL"

Supported objects

Object type	Object identification	Supported product	Example
User Defined	Indicated by greater-than sign	User defined process through open architecture.	>MY-OBJECT_is/HERE

The ISPF Productivity Tool OLIST also supports these additional objects:

Object type	Object identification	Examples
Comments	Leading exclamation mark	! This is a comment
Dynamic OLIST	Leading :LISTX command	:LISTC sys1.*mac* :LISTV VOL001 ACCOUNTS.*COBOL* :LISTA ISPLIB :LISTS LINKLIST :LISTS LPALIB
ISPF hierarchies	Leading equal sign	=PROJECT GROUP1 GROUP2 GROUP3 TYPE
Immediate commands	Leading plus sign (the command may include reference to another entry. Specify a slash followed by the entry number)	+LISTDS 'USER12.TEST.DATA' LABEL +RECEIVE +ISPEXEC SELECT PGM(MYPROG) PARM(A) +%MYTEST DSN(/2) TODSN(/3)
Prompt commands	Leading question mark (the command may include reference to another entry. Specify a slash followed by the entry number)	?LISTDS 'USER12.TEST.DATA' LABEL ?RECEIVE ?ISPEXEC SELECT PGM(MYPROG) PARM(A) ?%MYTEST DSN(/2) TODSN(/3)

Appendix H. Invoking ISPF through an alternate program

With ISPF Productivity Tool installed, ISPF is invoked from its internal entry point ISRPCP. If you want ISPF Productivity Tool to invoke a program other than ISRPCP, allocate a DD as follows (where NEWNAME is the name of the program you want to invoke):

```
//SPFPNAME DD DSN=DSNAME(NEWNAME)
```

or

```
ALLOC FILE(SPFPNAME) DA('DSNAME(NEWNAME)')
```

The DSNAME can be any data set, for example, the panel library. ISPF Productivity Tool only inspects the member name.

Note: The program name cannot be ISPF, PDF or ISPSTART.

Invoking ISPF through an alternate program

Appendix I. The customization wizard IQIWIZRD

The customization wizard IQIWIZRD provides the means for a complete customization of ISPF Productivity Tool. Once you start the wizard, it is a matter of filling in the appropriate fields, and moving from one panel to the next. The following panels show you what is available in the wizard.

```
READY
%IQIWIZRD
```

```
PLEASE ENTER THE NAME OF THE -IPT- TABLE LIBRARY OR JUST PRESS ENTER TO EXIT.
EXAMPLE: IQI.SIQITLIB
```

```
====> IQI.V5R10M0.SIQITLIB
```

```
PLEASE ENTER THE NAME OF THE -IPT- TABLE LIBRARY OR JUST PRESS ENTER TO EXIT.
EXAMPLE: IQI.SIQITLIB
```

```
====> IQI.V5R10M0.SIQITLIB
```

```
PLEASE ENTER THE NAME OF THE -IPT- PANEL LIBRARY OR JUST PRESS ENTER TO EXIT.
EXAMPLE: IQI.SIQIPLIB
```

```
====> IQI.V5R10M0.SIQIPLIB
```

```
----- IBMIPT - Customization Wizard -----
COMMAND ==> 1
```

Please select which tasks you want to perform:

- 1 Customization - Set up IBMIPT options and defaults.
- X EXIT - Exit - do not customize, do not set up password.

Make selection and press the Enter key or press the END key to exit.

```
-----
| + PREVIOUS DEFAULTS WERE UPDATED BY IBM ON 01/01/08 AT 11:09:00 |
-----
```

The customization wizard IQIWIZRD

```

----- IBMIPT - Customization Wizard -----
COMMAND ==>

+-----+
| Welcome to the IBMIPT customization wizard. You will be presented with a |
| series of screens where you will fill in different customization options. |
|                                                                           |
| The selected options will determine which screens will be displayed, so |
| don't be surprised if you get different results when you run this utility |
| again with different selected options.                                   |
|                                                                           |
| Some of the options you select will force a change on all IBMIPT users, |
| while others will only change their defaults. Those options that change |
| default values will only affect new IBMIPT users. Existing users have   |
| their defaults already set in their ISPF profile.                       |
|                                                                           |
| Note that IBMIPT users can change their defaults via the SET command (by |
| entering "IPT SET" or shortcut "ISET" on any ISPF panel).              |
+-----+

Press ENTER to proceed or the END key for the initial screen

```

```

----- IBMIPT - Customization Wizard -----
COMMAND ==> _____

Please select the options you would like to inspect or specify:
(some options are pre-selected by IBMIPT)

Select  Option                                     Notes
-----
S      DASD storage management                     Activate built-in support
S      Browse/View preferences                     Specify VIEW data integrity
S      Obtain info about IBMIPT objects             Recommended for new installation
-      Install IBMIPT session exits                Specify CLIST/REXX/module names
-      Change names of general commands            Rename IBMIPT command names
-      Specify PDS compress options                 Compress PDS integrity options
-      Session diagnostics options                 Control PANELID and other options
S      User interface options                       Action bars, hotbars, etc.

Press ENTER to proceed or the END key for the initial screen

```

```

----- IBMIPT - Customization Wizard -----
COMMAND ==>

Verify Object List (OLIST) defaults (for first time IBMIPT users):

Default OLIST command           ==> B (B=Browse, E=Edit, V=View)
(When a line is selected by number, with the S line command, or with cursor)

Check edit recovery when list opens ==> N (Y=Yes, N=No)

Default cursor position         ==> M (M=Main command, L=Line command)

Show VOLSER of cataloged data-sets ==> Y (Y=Yes, N=No)

Maximum size of Dataset-History list ==> 100 (Min=10 Max=999)

Catalog search pattern rules    ==> 1 (0, 1, 2)
(0) Unrestricted dataset name patterns
(1) First character may not be a "wild card"
(2) High level qualifier may not have any "wild card" characters

Press ENTER to proceed or the END key for the initial screen

```

```
----- IBMIPT - Customization Wizard -----
COMMAND ==>
```

IBMIPT searches for the OLIST (object list) library in the following order:

1. In the list of allocated files, for a DD name "PLSTLIBW" . If it is pre-allocated (before OLIST is invoked), IBMIPT will use it.
2. In the catalog. If a library by the name "qual1.PLIST.LIBRARY" is cataloged, IBMIPT will use it. "qual1" stands for the first level qualifier you specify on this screen.
3. In the list of allocated files, for a DD name "IPITBLIB" . If it is pre-allocated (before OLIST is invoked), IBMIPT will use it.

If IBMIPT cannot find the library pre-allocated or cataloged (as explained above), it will try to allocate a new PDSE library, using the name "qual1.PLIST.LIBRARY" with the UNIT name specified below.

Enter/Verify OLIST library defaults (as explained above):

```
PREFIX ("qual1")      ==> U      (U=USERID, P=TSO PREFIX)
Allocation UNIT name ==> SYSALLDA (Unit name, blank for SYSALLDA,
                                or * for default TSO unit name)
```

IBMIPT also uses DD(IPITBLIB) for specifying a personal library as a repository of persistent tables, such as CUT/PASTE clipboards and the TSO-SHELL command lists. This library may be dynamically allocated at IBMIPT startup whenever DD(IPITBLIB) is omitted from the logon procedure. Elect persistent table library use: Y (yes), N (no) ==> Y

```
----- IBMIPT - Customization Wizard -----
COMMAND ==>
```

IBMIPT uses object-oriented technology to provide users with access to different classes of objects they commonly use. The most common object class is a data set. Within the DATA SET object class, IBMIPT supports several subclasses (for example sequential data sets, PDS data sets).

Each object class is internally associated with a "METHOD" - an access mechanism that indicates how IBMIPT should handle each class. This is similar to the "OLE" concept in Microsoft's Windows on the PC.

Some methods are provided internally by IBMIPT (for example the method that handles PDS libraries and display the MSL -the Member Selection List). Other methods are IBMIPT interfaces to third party products - for example the DB2-table class method requires a third party product that can browse or edit DB2 tables.

The following screens you will select which object classes should be supported by IBMIPT, and which methods each supports.

Press ENTER to proceed or the END key to return to the initial screen.

The customization wizard IQIWZR

```
----- IBMIPT - Customization Wizard -----
COMMAND ==>
```

Select the optional object classes to be supported. Internal object classes are already preselected. If you are unsure, select all options to get more information about each one. You will be able to de-select undesired option later.

Select	Object Class	Notes
S	Open Edition files (IQI\$UNIX CLIST)	Requires z/OS UNIX Services
S	PC files (IQI\$PC CLIST)	Requires ISPF workstation
S	IBM BookManager data sets	Interfaces to IBM BookManager
S	IBM SCLM support	Activates built-in support
-	Panvalet libraries	Interfaces to third party product
-	Librarian files	Interfaces to third party product
-	PDSMAN libraries	Activates built-in support
S	VSAM data sets	Interfaces to third party product
S	DB2 tables	Interfaces to third party product
-	User defined objects	Define your own interface

Press ENTER to proceed or the END key to return to the initial screen.

```
----- IBMIPT - Customization Wizard -----
COMMAND ==>
```

Specify DASD management products support:

Provide DFSMS support ==> * (Y=Yes, N=No, *=Automatic detection)

Name of MIGRATION/ARCHIVAL system ==> HSM (HSM, DMS, ASM2, ABR or BLANK)

Name of secondary ARCHIVAL system ==> (ABR or BLANK)

Name of MIGRATION/ARCHIVAL volume ==> MIGRAT (e.g. MIGRAT, ARCIVE)

Name of "DELETE migrated" command ==> HDELETE (e.g. HDELETE)

(Command name, CLIST, or REXX EXEC to be used instead of the DELETE command when a user tries to delete a migrated/archived data set in OLIST).

Notes: - If you leave this field BLANK, IBMIPT will recall/restore the data set and then display a confirmation screen (that displays the data set contents if the DSORG is PO or PS).

- If you do specify a command, CLIST or REXX EXEC, IBMIPT will invoke that command after receiving a confirmation on a panel that only lists the name of the data set (no contents displayed).

-

Press ENTER to proceed or the END key to return to the initial screen.

```

----- IBMIPT - Customization Wizard -----
COMMAND ==>
IBMIPT VIEW FUNCTION CUSTOMIZATION:

Beginning with ISPF Version 4, IBMIPT provides two types of VIEW:
SHARED-VIEW and EXCLUSIVE-VIEW (Under versions prior to ISPF
Version 4, IBMIPT will always use EXCLUSIVE-VIEW).

EXCLUSIVE-VIEW is similar to EDIT - only one user can access the
file (member) at a time. Additionally, a confirmation screen will
be displayed before changes are saved back to the file.

SHARED-VIEW does not issue ENQ on the file, thus allowing others to
edit the file at the same time. Under SHARED-VIEW the save command
is disabled, but the REPLACE/CREATE commands can still be used.

Specify the type of VIEW for your installation:
VIEW TYPE ==> E (E=Exclusive, S=Shared)

Should users be allowed to override the above setting?
USER CAN OVERRIDE THE VIEW TYPE ==> Y (N=No, Y=Yes-Override is allowed)

Press ENTER to proceed or the END key to return to the initial screen.

```

```

----- IBMIPT - Customization Wizard -----
COMMAND ==>
DEFAULT PROCESS FOR MAIN PANEL OPTION 1 (BROWSE, VIEW)

Beginning with ISPF Version 4, the program used to invoke BROWSE on the main
menu can have two modes - BROWSE or VIEW. The program ("ISRBRO") is
invoked by a statement in the ")PROC" section of the panel: "PGM(ISRBRO)"

When PGM(ISRBRO) is invoked, IBMIPT displays an entry screen that
includes a "DEFAULT ACTION ==>" field which provides the ability
to set the action to B rowse, V iew, or E dit.

The "DEFAULT ACTION" settings on this screen determines how IBMIPT
handle browse requests. This setting is easily overridden by users by
the SET command which can be issued on the same panel.

The advantages of VIEW are the ability to change the file, to use CUT
and PASTE, and to exclude lines. The disadvantage is that VIEW
pre-loads the entire file and uses more resources.

Specify the default action when PGM(ISRBRO) is invoked:
DEFAULT ACTION ==> B (B=Browse, V=View)

Press ENTER to proceed or the END key to return to the initial screen.

```

```

----- IBMIPT - Customization Wizard -----
COMMAND ==>

Activate HOTBARS (on IBMIPT panels) ==> Y (Cursor sensitive command fields)
Globally activate action bars ==> Y (CUA style pulldown menus)
If action bars are globally active:
  Use action bars in edit/BROWSE ==> Y (Note:action bar takes 2 panel lines)
  Use action bars in MSL ==> Y (IBMIPT's Member Selection List)
  Use action bars in OLIST ==> Y (IBMIPT's Object list)
  Use action bars in DSLIST ==> Y (ISPF option 3.4)
Notes 1. Users can change these defaults. The recommended method of changing
these options is by entering the IPT SET command on the main menu.
      2. Pre-processing ISPF panels will prevent IBMIPT from changing these
options on ISPF panels. IBMIPT panels should never be pre-processed.
Press ENTER to proceed or the END key to return to the initial screen.

```

The customization wizard IQIWIZRD

```
----- IBMIPT - Customization Wizard -----
COMMAND ==>

Specify the default for BROWSE/EDIT and VIEW main menu display of
reserved name @H :

    Display OLIST of History-List ==> Y (Y=Yes, N=No)

Specify the default User Interface options for CUT and PASTE
command handling :

    Cut and Paste Options ==> 1 (1, 2)

    (1) IBMIPT CUT/PASTE      CUT/PASTE commands are IBMIPT's for all
                               applications (ISPF, SDSF, OMVS, etc.)
    (2) ISPF CUT/PASTE       CUT/PASTE commands are ISPF's for all
                               applications
```

```
----- IBMIPT - Customization Wizard -----
COMMAND ==>

MSL (Member Selection List) is the IBMIPT built-in method of displaying
member lists in ISPF. MSL provides stacking of multiple commands,
filtering of the member list, global actions (global find, change,
edit), member-preview windows, and other powerful functions.

Specify below the following MSL defaults:

    Automatic preview          ==> Y (N=No, Y=Yes: Display top of member in a
                               window following the Locate,
                               Find, or FindText commands)

Notes: -These defaults will affect users who have not yet used IBMIPT.
        -Users can change their defaults via the SET command (in MSL).
        Press ENTER to proceed or the END key to return to the initial screen.
```

```
----- IBMIPT - Customization Wizard -----
COMMAND ==>

    IBMIPT has a built-in printing engine that directs prinouts to a
    SYSOUT file without the intermediate ISPF LIST data set.

    Users can direct their IBMIPT print requests to the ISPF
    list data set, or use IBMIPT's faster method.

    When the IBMIPT method is selected, IBMIPT dynamically allocates
    a SYSOUT file using the specifications that reside in each
    user's profile. On the following screen you will specify the
    defaults for users who have not yet run under IBMIPT. Users who
    have already run under IBMIPT have their defaults saved in their
    ISPF profile.

    To change the defaults, users can use the SET PRINT command (in
    MSL or OLIST).

    Press ENTER to proceed or the END key to return to the initial screen.
```


----- IBMIPT - Customization Wizard -----
 COMMAND ==>

In case IBMIPT print requests directed to the IBMIPT print engine rather than the ISPF LIST dataset, specify the SYSOUT allocation defaults (for users who have not yet used IBMIPT).
 IBMIPT users can change these options via the SET command.

Enter/Verify SYSOUT attributes:
 DESTINATION ID ==> (Node-id<.User-id>)
 CLASS ==> A (Sysout class)
 Lines per page ==> 60 (page size)
 Keep in HOLD queue ==> N (Y=Yes, N=No)
 FORM number ==>
 FCB name ==>
 WRITER name ==> (Output WRITER)

Press ENTER to proceed or the END key to return to the initial screen.

----- IBMIPT - Customization Wizard -----
 COMMAND ==>

IBMIPT provides an alternative TSO command shell that provides command history, permanent commands entries, execution of ISPF dialog manager statements, and substitution of data sets pointed by the cursor (create your own point-and-shoot commands).

For example, if a permanent entry number 5 is defined as:
 %TRANSFER SYSB.JONES DSN(/)

then by entering "TSO 5" on any ISPF screen while placing the cursor on a data set name appearing on that screen would execute the %TRANSFER command on the pointed data set.

The SET command is used to activate or deactivate the IBMIPT TSO command shell.

For users who have not yet used IBMIPT, indicate the desired defaults:

Use IBMIPT shell ==> Y (Y=Yes - Use the IBMIPT TSO shell, N=No)
 Output line number ==> 7 (Number of screen line for TSO command output)
 Initial screen ==> H (H=History list, P=Permanent list)
 Automatic filling ==> Y (Y=Yes - Automatically fill permanent list, N=No)
 History recording ==> L (F=Full - Every command put in history list)
 (L=Limited - Build a table of commands that are not put in the history list. Use this option to hide security-sensitive commands).

----- IBMIPT - Customization Wizard -----
 COMMAND ==>

Specify DSLIST (option 3.4) parameters:

IBMIPT adds the ability to invoke OLIST (Object/dataset list) directly from the DSLIST panel. These object lists are faster and more powerful than the ISPF Data set list (DSLIST).

The following option specifies the DEFAULT action taken on the DSLIST panel when the user presses the ENTER key with a blank "OPTION ==>" field:

Default action ==> TP (DS=DSLIS, PL=Permanent List, TP=Temporary List)

Notes: - Regardless of the selected default, users can select any other option by explicitly entering one of the other DSLIST panel options (like DS, V, PV, etc).
 - The default action may also be set by each user via the SET command on the DSLIST panel.

Press ENTER to proceed or the END key to return to the initial screen.

The customization wizard IQIWZR

```
----- IBMIPT - Customization Wizard -----  
COMMAND ==>
```

SCLM is ISPF's Software Configuration and Library Manager. SCLM provides controlled edit capabilities within standard PDS libraries (with member locking, check-in/check-out), full development life cycle of applications (including a "MAKE"), and extensive reporting. SCLM is an integrated part of ISPF.

IBMIPT can provide significant benefits to SCLM users by integrating SCLM support into the standard member list, DSLIST and OLIST. If your installation uses SCLM, it is recommended that you activate the SCLM support on this screen.

Activate SCLM support ==> Y Y =Yes - Support SCLM for all users
N =No - Do not provide SCLM support
D =Conditional support. SCLM will only be supported for users who at the time IBMIPT is started, have a preallocated DD "IQISCLM" .
This DD can be allocated in the LOGON PROC/CLIST.
Example: ALLOC DD(IQISCLM) DUMMY
or //IQISCLM DD DUMMY

Press ENTER to proceed or the END key to return to the initial screen.

```
----- IBMIPT - Customization Wizard -----  
COMMAND ==>
```

Verify SCLM options:

SCLM parameter prompt ==> F Y =Yes - Whenever an SCLM library is accessed.
N =No - Users must preset the parameters with the SCLMPARM command (in the Member List).
F =A prompt screen is displays only on first time access to a specific library. Thereafter the previous parameters for that library are used.

Note:the above option can be changed by individual users via the SET command.

The following option applies to ISPF Version 4.1 or above:

Override SCLMCHK value ==> * (W=WARN, E=ERROR, N=NONE, *=no override)

This setting allows you to override the value of the "SCLMCHK" field in ISRCONFG (ISPF's configuration table). This field defines how edit should react when attempting to edit an SCLM-saved file without SCLM locking.

SCLMCHK values (See ISPF Customization for more details):

WARN -Display a warning message if edited project/member is SCLM controlled.

NONE -No checking is done. No warning messages issued.

ERROR -Reject editing of SCLM-saved members without SCLM or IBMIPT locking.

Press ENTER to proceed or the END key to return to the initial screen.

```
----- IBMIPT - Customization Wizard -----  
COMMAND ==>
```

IBMIPT recognizes BookManager BOOK and BOOKSHELF data sets by their special suffixes. It may further verify certain attributes before passing control to BookManager.

Set BookManager interface EXEC name ==> IQI\$BMGR

Set BookManager BOOKSHELF defaults:

Data set name suffix ==> BKSHELF

Data set record format ==> VB (specify N to ignore)

Data set record length ==> 259

Set BookManager BOOK defaults:

Data set name suffix ==> BOOK

Data set record format ==> FB (specify N to ignore)

Data set record length ==> 4096

Press ENTER to proceed or the END key to return to the initial screen.

----- IBMIPT - Customization Wizard -----

COMMAND ==>

When IBMIPT detects a VSAM data set (in BROWSE, EDIT, VIEW, DSLIST, or object list), it may use an interface to process it. You may select which kind of VSAM support you want in your installation, if any. The table below shows what CLIST will handle the support you have selected.

VSAM interface ==> 2 (Select one of the following options)

Option	Invoked VSAM interface	Interface CLIST
0	None (IBMIPT will not handle VSAM files.)	Not applicable
1	Installation-written VSAM interface	IQIVSAM
2	IBM File Manager for z/OS	IQI\$FMGR
3	File-Aid VSAM browser/editor(For Version 6 or below)	IQI\$FAID
4	File-Aid VSAM browser/editor(Version 7.0)	IQI\$XPRT
5	File-Aid VSAM browser/editor(Version 8.0 or above)	IQI\$FAR8
6	Data-Xpert VSAM browser/editor	IQI\$XPRT
7	MacKinney ISPF VSAM Utility	IQI\$MCKN
8	IBM Ditto/ESA	IQI\$DIT
9	Serena STARTOOL	IQI\$STOL
10	VSAM RECORD BROWSER (A SAMPLE WORKING INTERFACE)	IQIVBRO

NOTES:- Options 2-9 require a third-party product. If such a product uses LIBDEFS, include the LIBDEF statements in the interface CLIST.

----- IBMIPT - Customization Wizard -----

COMMAND ==>

When IBMIPT detects a data set name that starts with a hyphen (in BROWSE EDIT, VIEW, and the object list), it assumes that the text string following the hyphen is the name of a DB2 table. You may select which kind of DB2 support you want in your installation, if any. The table below shows what CLIST will handle the support you have selected.

DB2 interface ==> 9 (Select one of the following options)

Option	Description	CLIST
0	None (IBMIPT will not handle DB2 tables.)	None
1	Installation-written DB2 interface	IQIDB2
2	Computer Associates Pro-EDIT Version 5.0 or earlier	IQI\$PRED
3	Computer Associates Pro-EDIT Version 5.1 or above	IQI\$PR51
4	Computer Associates Pro-EDIT Version 7.0 or above	IQI\$PR70
5	Platinum Technology's RC/UPDATE browser/editor	IQI\$RCUD
6	Platinum Technology's RC/UPDATE browser/editor VER 2 or above	IQI\$RCU2
7	Compuware's FileAID for DB2 table browser/editor	IQI\$FAB2
8	CDB Software's CDB/EDIT table editor	IQI\$CDBE
9	IBM File Manager/DB2 for z/OS table browser/editor	IQI\$FMD2

NOTE: If you use LIBDEFS to invoke your DB2 editor, include the LIBDEF statements in the appropriate CLIST named above.
Press ENTER to proceed or the END key to return to the initial screen.

----- IBMIPT - Customization Wizard -----

COMMAND ==>

The customization wizard has completed the first phase of interviewing you for the installation options.

You can now proceed to finalize the customization process (press the ENTER key) or you may cancel (press the END key) and redisplay the initial screen.

Press ENTER to proceed or the END key to return to the initial screen.

The customization wizard IQIWIZRD

```
-IPT- ----- TSO COMMAND SHELL - RESTRICT HISTORY RECORD Row 1 to 2 of 2
COMMAND      ==>
Main commands: CANCEL, DOWN, END, UP
Line commands: I=insert, D=delete
```

```
+-----+
| TSO commands (or CLIST or REXX EXECs) specified here with the
| "No History" set to Y (YES) will not be recorded in the command
| history list of the TSO Command Shell (option 6).
+-----+
```

Line COMMAND	Command or CLIST	No History
-	PASSWORD	Y
-	PROTECT	Y

Specify Disposition of Log Data Set

Command ==>

Log Data Set (INTT125.SPFL0G1.LIST) Disposition:

Process Option

1. Print data set and delete
2. Delete data set without printing
3. Keep data set - Same
(allocate same data set in next session)
4. Keep data set - New
(allocate new data set in next session)

Batch SYSOUT class . .

Local printer ID or

writer-name

Local SYSOUT class . .

List Data Set Options not available

Press ENTER key to complete ISPF termination.

Enter END command to return to the primary option menu.

Job statement information: (Required for system printer)

==>

==>

==>

==>

INSTALLATION DEFAULTS WERE SAVED

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