



**Program Directory for  
IBM Problem Determination Solution Pack for z/OS**

V01.01.00

Program Number 5655-PDS

for use with  
z/OS

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GI13-2933-00

**Note**

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 18.

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## 1.0 Introduction

This program directory is intended for system programmers who are responsible for program installation and maintenance. It contains information about the material and procedures associated with the installation of IBM Problem Determination Solution Pack for z/OS. This publication refers to IBM Problem Determination Solution Pack for z/OS as PD Solution Pack, IBM Fault Analyzer for z/OS as Fault Analyzer, IBM File Manager for z/OS as File Manager, IBM Problem Determination Tools Common Component as PDTCC, IBM Debug Tool for z/OS as Debug Tool, IBM Workload Simulator for z/OS and OS/390 as WSim, IBM HourGlass as HourGlass, IBM Data Set Commander for z/OS as Data Set Commander, and IBM COBOL and CICS Command Level Conversion Aid for OS/390 & MVS & VM as CCCA.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 6 identifies the basic program materials and documentation for PD Solution Pack.
- 3.0, “Program Support” on page 9 describes the IBM support available for PD Solution Pack.
- 4.0, “Program and Service Level Information” on page 10 lists the APARs (program level) and PTFs (service level) that have been incorporated into PD Solution Pack.
- 5.0, “Installation Requirements and Considerations” on page 11 identifies the resources and considerations that are required for installing and using PD Solution Pack.
- 6.0, “Installation Instructions” on page 16 provides detailed installation instructions for PD Solution Pack. It also describes the procedures for activating the functions of PD Solution Pack, or refers to appropriate publications.

Before installing PD Solution Pack, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that are supplied with this program in softcopy format and this Program Directory; then keep them for future reference. Section 3.2, “Preventive Service Planning” on page 9 tells you how to find any updates to the information and procedures in this Program Directory.

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

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

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## 1.1 PD Solution Pack Description

The Problem Determination Solution Packs are a convenient and affordable way to purchase key products in the Problem Determination Tools family:

- **Convenient.**  
Being able to purchase multiple products under a single program number can help to simplify client procurement processes.
- **Affordable.**  
The Solution Pack price represents a reduction in the aggregate price of the individual component products. When trading up, customers with active Subscription and Support (S&S) contracts for a previously purchased product that is part of one of these Solution Packs can receive Value Unit credit for prior purchases.

PROBLEM DETERMINATION SOLUTION PACK FOR Z/OS, V1.1 is composed of the following tools:

- **Debug Tool for z/OS, V13.1** is the IBM interactive, source-level debugging tool for compiled applications. It is a program testing and analysis aid that helps you examine, monitor, and control the execution of application programs written in C, C++, COBOL, PL/I, or Assembler on a z/OS system. It provides debugging capability for applications running in a variety of environments, such as batch, TSO, CICS, IMS, DB2, DB2 Stored Procedures, and UNIX System Services.
  - Provides multiple conditional and unconditional breakpoints, step mode debugging, and the ability to monitor and update variables and storage.
  - Includes features to help you identify old OS/VS and VS COBOL II source code and to upgrade the code to Enterprise COBOL.
  - Supplies tools to help you determine how thoroughly your code was tested.
- **Fault Analyzer for z/OS, V13.1** assists in analyzing and fixing application and system failures. It offers information required to help determine the cause of failure and provides assistance in how to resolve the problem. Integrated support for Java gives Fault Analyzer expanded application coverage and related business value beyond traditional applications. You can use one tool to assist in composite, application-abend analysis.
  - Delivers a detailed report about program failures to help you resolve them quickly.
  - Includes a fault history file that lets you track and manage application failures and fault reports.
  - Lets you control which users can access history files by allowing you to store application failure information in separate files.
  - Offers a view of storage contents, trace tables, and terminal screen images at the time of failure to help speed corrective action.
  - Lets you customize message descriptions to be used in application failure reports.
  - Helps maximize flexibility through support for CICS, DB2, IMS, Enterprise PL/I, Enterprise COBOL, and Java for z/OS systems.

- File Manager for z/OS, V13.1 offers comprehensive, user-friendly tools for working with z/OS data sets, or DB2, or IMS data. You can also access CICS resources under control of a CICS transaction. Create, browse, copy, edit, print, and format or reformat data files in the most popular z/OS file formats. Manipulate data using COBOL and PL/I record layouts interactively or in batch.
  - Supports development and production through extensive editing, browsing, and batch and interactive utility capabilities.
  - Finds, copies, edits, prints, compares, and displays data quickly and easily.
  - Defines data-set records efficiently by using COBOL and PL/I copybooks stored in partitioned data sets or library-management systems.
  - Enhances usability by letting you customize which fields to display, copy, or print.
- Workload Simulator for z/OS and OS/390, V1.1 lets you simulate terminals and the associated messages. You can alter message loads during a run. Workload Simulator can be used to generate large volumes of messages to evaluate the reliability and to approximate performance characteristics of a network under expected operating conditions.
  - Delivers native support of multiple client applications that run on top of TCP/IP.
  - Includes System Network Architecture (SNA) logical units that can be simulated while executing as an IBM VTAM application program
  - Includes Workload Simulator Test Manager that helps you develop and manage test cases, the automation of test runs, and the analysis of results.
  - Includes flexible script-generating utilities, extensive run-time utilities, and powerful, post-test, analysis utilities.
- HourGlass V7.1 is a z/OS clock-simulator application for altering the date and time returned to a z/OS application when a time request is made. HourGlass enables automation of the date and time testing process to help companies deliver reliable applications without requiring changes to application code, re-IPLing the CPU or LPAR, or making runtime JCL changes. HourGlass features and flexibility help enable easy, accurate, and comprehensive application testing.
 

The testing of time-sensitive applications is less disruptive with HourGlass where you may set as many altered date and time values as needed and eliminate multiple system Power-On-Reset (POR) procedures. Altered values affect only the applications you specify. HourGlass intercepts all system time-of-day requests that internally issue an SVC 11 or requests to the PC Time system service.

HourGlass handles time requests originating from the MVS STCKSYNC system service, which is important for sysplex-wide applications impacted by time and date. You can alter the date-time by specifying patterns or specific applications, transactions, users, and address space names.

The HourGlass Repository provides the capability to save and manage HourGlass date and time settings in a permanent storage facility. Date and time settings are preserved across executions of the product. You can manage the contents of the repository with the HourGlass Control Center.
- IBM Data Set Commander for z/OS, V8.1, the new product name for IBM ISPF Productivity Tool for z/OS, enhances and extends the IBM interactive and batch capabilities for working with partitioned data sets (PDSs) and PDS extendeds (PDSEs) and their members. It delivers new batch and online

functions, as well as enhancements to existing functions, for performing critical operations on PDS and PDSE members. Data Set Commander for z/OS has three components:

- The interactive component of Data Set Commander for z/OS is an integrated front end to ISPF. It enhances most major ISPF functions, which includes browse, edit, TSO shell, and DSLIST, and provides many additional capabilities. Data Set Commander for z/OS can make any ISPF user more productive with functions such as automatic PDS compression and directory expansion, and search capabilities for volumes, data sets, members, and text within members.
- The batch component of Data Set Commander for z/OS consists of a fully compatible utility replacement for IEBCOPY, with significantly enhanced functionality for managing and manipulating PDS and PDSE datasets.
- The monitor component of Data Set Commander for z/OS provides a fully automated facility for managing the caching of PDS and PDSE members in the LLA and VLF regions of selected system nodes in a sysplex.

Data Set Commander for z/OS can boost productivity for ISPF users across the spectrum from those who have worked with ISPF for many years and know their way around the panels quickly, to those who are new to the IBM z/OS environment and were trained in workstation tools and interfaces. Both types of users need tools that offer time-saving advantages, and both will find them in Data Set Commander for z/OS.

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## 1.2 PD Solution Pack FMIDs

PD Solution Pack consists of the following FMIDs:

- Fault Analyzer:
  - HADQD10
  - JADQD1J
  - JADQD1K
- File Manager:
  - HADLD10
  - JADLD11
  - JADLD12
  - JADLD13
  - JADLD14
  - JADLD15
  - JADLD16
  - JADLD17
  - JADLD1A
  - JADLD1B
  - JADLD1C
  - JADLD1D
- PDTCC:



HVWR170  
JVWR171  
JVWR172

- Debug Tool:

HADRD10  
JARDR1J  
JARDR1K

- WSim:

H281110

- HourGlass:

HAD5710

- Data Set Commander:

HIQI810

- CCCA:

H09F210  
J09F210

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## 2.0 Program Materials

An IBM program is identified by a program number and feature numbers. The program number for PD Solution Pack is 5655-PDS and the feature numbers are 6002, 6003, and 6004.

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

The program announcement material describes the features supported by PD Solution Pack. Ask your IBM representative for this information if you have not already received a copy.

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### 2.1 Basic Machine-Readable Material

The distribution medium for this program is physical media or downloadable files. This program is in SMP/E RELFILE format and is installed by using SMP/E. See 6.0, "Installation Instructions" on page 16 for more information about how to install the program.

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

To view the Program File Content of the products that constitute PD Solution Pack, refer to the following Program Directories that are supplied with the product.

- Publication number GI10-8967 for Fault Analyzer
- Publication number GI10-8968 for File Manager
- Publication number GI10-8969 for PDTCC
- Publication number GI13-3004 for Debug Tool
- Publication number GI10-3234 for WSim
- Publication number GI13-2928 for HourGlass
- Publication number GI10-8987 for Data Set Commander
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

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### 2.2 Optional Machine-Readable Material

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

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## 2.3 Program Publications

The following sections identify the basic publications for PD Solution Pack.

Figure 1 on page 7 identifies the basic unlicensed publications for PD Solution Pack. Publications can be accessed at the IBM Publications Center website at <http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss>

<i>Figure 1. Basic Material: Unlicensed</i>	
<b>Publication Title</b>	<b>Form Number</b>
IBM Problem Determination Solution Pack for z/OS Agreements and License Information	LC27-4559
IBM Fault Analyzer for z/OS Program Directory	GI10-8967
IBM File Manager for z/OS Program Directory	GI10-8968
IBM Problem Determination Tools Common Component Program Directory	GI10-8969
IBM Debug Tool for z/OS Program Directory	GI13-3004
IBM Workload Simulator for z/OS and OS/390 Program Directory	GI10-3234
IBM HourGlass Program Directory	GI13-2928
IBM Data Set Commander for z/OS Program Directory	GI10-8987
IBM COBOL and CICS Command Level Conversion Aid for OS/390 & MVS & VM Program Directory	GI10-5080 (English), and GI10-6976 (Japanese)

To view the unlicensed publications content of the products that constitute PD Solution Pack, refer to the following Program Directories that are supplied with the product.

- Publication number GI10-8967 for Fault Analyzer
- Publication number GI10-8968 for File Manager
- Publication number GI10-8969 for PDTCC
- Publication number GI13-3004 for Debug Tool
- Publication number GI10-3234 for WSim
- Publication number GI13-2928 for HourGlass
- Publication number GI10-8987 for Data Set Commander
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

### 2.3.1 Optional Program Publications

No optional publications are provided for PD Solution Pack.

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## 2.4 Program Source Materials

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

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## 2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 2 during the installation of PD Solution Pack.

*Figure 2. Publications Useful During Installation*

<b>Publication Title</b>	<b>Form Number</b>	<b>Media Format</b>
<i>IBM SMP/E for z/OS User's Guide</i>	SA22-7773	PDF and BookManager
<i>IBM SMP/E for z/OS Commands</i>	SA22-7771	PDF and BookManager
<i>IBM SMP/E for z/OS Reference</i>	SA22-7772	PDF and BookManager
<i>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</i>	GA22-7770	PDF and BookManager

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## 3.0 Program Support

This section describes the IBM support available for PD Solution Pack.

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### 3.1 Program Services

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

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### 3.2 Preventive Service Planning

To view the Preventive Service Planning (PSP) of the products that constitute PD Solution Pack, refer to the following Program Directories that are supplied with the product.

- Publication number GI10-8967 for Fault Analyzer
- Publication number GI10-8968 for File Manager
- Publication number GI10-8969 for PDTCC
- Publication number GI13-3004 for Debug Tool
- Publication number GI10-3234 for WSim
- Publication number GI13-2928 for HourGlass
- Publication number GI10-8987 for Data Set Commander
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

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### 3.3 Statement of Support Procedures

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

To identify the component IDs (COMPID) for the products that constitute PD Solution Pack, refer to the following Program Directories that are supplied with the product.

- Publication number GI10-8967 for Fault Analyzer
- Publication number GI10-8968 for File Manager
- Publication number GI10-8969 for PDTCC
- Publication number GI13-3004 for Debug Tool
- Publication number GI10-3234 for WSim
- Publication number GI13-2928 for HourGlass
- Publication number GI10-8987 for Data Set Commander
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

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## 4.0 Program and Service Level Information

This section identifies the program and relevant service levels of PD Solution Pack. The program level refers to the APAR fixes that have been incorporated into the program. The service level refers to the PTFs that have been incorporated into the program.

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### 4.1 Program Level Information

To view the list of APAR fixes against the previous releases of the products that constitute PD Solution Pack, refer to the following Program Directories that are supplied with the product.

- Publication number GI10-8967 for Fault Analyzer
- Publication number GI10-8968 for File Manager
- Publication number GI10-8969 for PDTCC
- Publication number GI13-3004 for Debug Tool
- Publication number GI10-3234 for WSim
- Publication number GI13-2928 for HourGlass
- Publication number GI10-8987 for Data Set Commander
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

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### 4.2 Service Level Information

To view the Service Level Information of the products that constitute PD Solution Pack, refer to the following Program Directories that are supplied with the product.

- Publication number GI10-8967 for Fault Analyzer
- Publication number GI10-8968 for File Manager
- Publication number GI10-8969 for PDTCC
- Publication number GI13-3004 for Debug Tool
- Publication number GI10-3234 for WSim
- Publication number GI13-2928 for HourGlass
- Publication number GI10-8987 for Data Set Commander
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

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## 5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating PD Solution Pack. The following terminology is used:

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

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

Use separate driving and target systems in the following situations:

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

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### 5.1 Driving System Requirements

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

#### 5.1.1 Machine Requirements

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

#### 5.1.2 Programming Requirements

Figure 3. Driving System Software Requirements

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
Any <b>one</b> of the following:				
5694-A01	z/OS	V01.12.00	N/A	No
5650-ZOS	z/OS	V02.01.00	N/A	No
5655-G44	IBM SMP/E for z/OS	V03.05.00	N/A	No

**Note:** Installation might require migration to new z/OS releases to be service supported. See [http://www-03.ibm.com/systems/z/os/zos/support/zos\\_eos\\_dates.html](http://www-03.ibm.com/systems/z/os/zos/support/zos_eos_dates.html).

## 5.2 Target System Requirements

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

PD Solution Pack installs in the z/OS (Z038) SREL.

### 5.2.1 Machine Requirements

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

### 5.2.2 Programming Requirements

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

Mandatory installation requisites identify products that are required on the system for the successful installation of this product.

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

To view the Installation Requisites of the products that constitute PD Solution Pack, refer to the following Program Directories that are supplied with the product.

- Publication number GI10-8967 for Fault Analyzer
- Publication number GI10-8968 for File Manager
- Publication number GI10-8969 for PDTCC
- Publication number GI13-3004 for Debug Tool
- Publication number GI10-3234 for WSim



- Publication number GI13-2928 for HourGlass
- Publication number GI10-8987 for Data Set Commander
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

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

Mandatory operational requisites identify products that are required for this product to operate its basic functions.

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

To view the Operational Requisites of the products that constitute PD Solution Pack, refer to the following Program Directories that are supplied with the product.

- Publication number GI10-8967 for Fault Analyzer
- Publication number GI10-8968 for File Manager
- Publication number GI10-8969 for PDTCC
- Publication number GI13-3004 for Debug Tool
- Publication number GI10-3234 for WSim
- Publication number GI13-2928 for HourGlass
- Publication number GI10-8987 for Data Set Commander
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

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

PD Solution Pack has no toleration/coexistence requisites.

**5.2.2.4 Incompatibility (Negative) Requisites:** Negative requisites identify products that must *not* be installed on the same system as this product.

PD Solution Pack has no negative requisites.

## 5.2.3 DASD Storage Requirements

PD Solution Pack libraries can reside on all supported DASD types.

To review the individual DASD Storage Requirements of each of the products that constitute PD Solution Pack, refer to the following Program Directories that are supplied with the product.

- Publication number GI10-8967 for Fault Analyzer

- Publication number GI10-8968 for File Manager
- Publication number GI10-8969 for PDTCC
- Publication number GI13-3004 for Debug Tool
- Publication number GI10-3234 for WSim
- Publication number GI13-2928 for HourGlass
- Publication number GI10-8987 for Data Set Commander
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

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## 5.3 FMIDs Deleted

Installing any of the products that constitute PD Solution Pack, may result in the deletion of other FMIDs. To see which FMIDs will be deleted, examine the ++VER statement in each of the SMPMCS of these products.

If you do not want to delete these FMIDs at this time, install the relevant product into separate SMP/E target and distribution zones.

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

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## 5.4 Special Considerations

### 5.4.1 Subcapacity Reporting Tool Registration

If you are installing any of the products purchased as part of the PD Solution Pack, you are required to register these products to run under the PD Solution Pack PID 5655-PDS.

Parmlib member IFAPRDxx needs to be updated as follows:

```
PRODUCT OWNER('IBM CORP')
NAME('IBM PD SOLTN PAC')
ID(5655-PDS)
VERSION(*) RELEASE(*) MOD(*)
FEATURENAME('PROB-DET-SOL-PAC')
STATE(ENABLED)
```

After you have updated IFAPRDxx, issue the SET PROD=xx operator command.

**Note:** The IFAPRDxx parmlib member only needs to be updated once for PD Solution Pack, irrespective of the number of individual products installed.

For further instructions on registering the individual products, follow the instructions below:

1. For Fault Analyzer:
  - APAR PM99413 must be installed.

- Refer to the section "Registering Fault Analyzer in the IFAPRDxx parmlib member" in the Fault Analyzer User's Guide and Reference.
2. For File Manager:
    - APAR PM99799 must be installed.
    - A sample registration parmlib entry FMNWIFAS (included in the PTF for APAR PM99799), is provided in your hlq.SFMNSAM1 data set.
  3. For PDTCC:
    - No further action is required.
  4. For Debug Tool:
    - Sample registration parmlib entry EQAWIFAS, is provided in your hlq.SEQASAMP data set.
  5. For WSim:
    - No further action is required.
  6. For HourGlass:
    - No further action is required.
  7. For Data Set Commander:
    - No further action is required.
  8. For CCCA:
    - No further action is required.

## 5.4.2 Special Considerations for the Individual Products

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

- Publication number GI10-8967 for Fault Analyzer
- Publication number GI10-8968 for File Manager
- Publication number GI10-8969 for PDTCC
- Publication number GI13-3004 for Debug Tool
- Publication number GI10-3234 for WSim
- Publication number GI13-2928 for HourGlass
- Publication number GI10-8987 for Data Set Commander
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

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## 6.0 Installation Instructions

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

Please note the following points:

- If you want to install PD Solution Pack into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMPCSI and the SMP/E control data sets.
- You can use the sample jobs that are provided to perform part or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries that are required for SMP/E execution have been defined in appropriate zones.
- You can use the SMP/E dialogs instead of the sample jobs to accomplish the SMP/E installation steps.

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### 6.1 Installing PD Solution Pack

#### 6.1.1 SMP/E Considerations for Installing PD Solution Pack

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

To view the individual SMP/E installation instructions of each of the products that constitute PD Solution Pack, refer to the following Program Directories that are supplied with the product.

- Publication number GI10-8967 for Fault Analyzer
- Publication number GI10-8968 for File Manager
- Publication number GI10-8969 for PDTCC
- Publication number GI13-3004 for Debug Tool
- Publication number GI10-3234 for WSim
- Publication number GI13-2928 for HourGlass
- Publication number GI10-8987 for Data Set Commander
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

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### 6.2 Activating PD Solution Pack

To activate the individual products that constitute PD Solution Pack, refer to their Program Directories which are supplied with the product, and follow the instructions in the corresponding section(s).

- Publication number GI10-8967 for Fault Analyzer
- Publication number GI10-8968 for File Manager
- Publication number GI10-8969 for PDTCC
- Publication number GI13-3004 for Debug Tool
- Publication number GI10-3234 for WSim

- Publication number GI13-2928 for HourGlass
- Publication number GI10-8987 for Data Set Commander
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

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## Reader's Comments

### Program Directory for IBM Problem Determination Solution Pack for z/OS, December 2013

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