



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

V01.01.00

Program Number 5655-DMS

for Use with
z/OS

Document Date: August 2014

G113-2885-00

Note

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 17.

Contents

1.0 Introduction	1
1.1 PD Modernization Solution Pack Description	2
1.2 PD Modernization Solution Pack FMIDs	3
2.0 Program Materials	5
2.1 Basic Machine-Readable Material	5
2.2 Optional Machine-Readable Material	5
2.3 Program Publications	5
2.3.1 Optional Program Publications	6
2.4 Program Source Materials	6
2.5 Publications Useful During Installation	7
3.0 Program Support	8
3.1 Program Services	8
3.2 Preventive Service Planning	8
3.3 Statement of Support Procedures	8
4.0 Program and Service Level Information	9
4.1 Program Level Information	9
4.2 Service Level Information	9
5.0 Installation Requirements and Considerations	10
5.1 Driving System Requirements	10
5.1.1 Machine Requirements	10
5.1.2 Programming Requirements	10
5.2 Target System Requirements	11
5.2.1 Machine Requirements	11
5.2.2 Programming Requirements	11
5.2.2.1 Installation Requisites	11
5.2.2.2 Operational Requisites	12
5.2.2.3 Toleration/Coexistence Requisites	12
5.2.2.4 Incompatibility (Negative) Requisites	12
5.2.3 DASD Storage Requirements	12
5.3 FMIDs Deleted	13
5.4 Special Considerations	13
5.4.1 Subcapacity Reporting Tool Registration	13
5.4.2 Special Considerations for the Individual Products	14
6.0 Installation Instructions	15
6.1 Installing PD Modernization Solution Pack	15
6.1.1 SMP/E Considerations for Installing PD Modernization Solution Pack	15
6.2 Activating PD Modernization Solution Pack	15

7.0 Notices	17
7.1 Trademarks	17
Reader's Comments	18

Figures

1. Basic Material: Unlicensed	6
2. Publications Useful During Installation	7
3. Driving System Software Requirements	11

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 Modernization Solution Pack for z/OS. This publication refers to IBM Problem Determination Modernization Solution Pack for z/OS as PD Modernization 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 Application Performance Analyzer for z/OS as Application Performance Analyzer, 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 5 identifies the basic program materials and documentation for PD Modernization Solution Pack.
- 3.0, “Program Support” on page 8 describes the IBM support available for PD Modernization Solution Pack.
- 4.0, “Program and Service Level Information” on page 9 lists the APARs (program level) and PTFs (service level) that have been incorporated into PD Modernization Solution Pack.
- 5.0, “Installation Requirements and Considerations” on page 10 identifies the resources and considerations that are required for installing and using PD Modernization Solution Pack.
- 6.0, “Installation Instructions” on page 15 provides detailed installation instructions for PD Modernization Solution Pack. It also describes the procedures for activating the functions of PD Modernization Solution Pack, or refers to appropriate publications.

Before installing PD Modernization 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 8 tells you how to find any updates to the information and procedures in this program directory.

PD Modernization 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 Modernization Solution Pack are included on the CBPDO tape.

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

1.1 PD Modernization 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 MODERNIZATION 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.
- Application Performance Analyzer for z/OS, V13.1 measures and reports how applications use available resources. This easy to use tool helps you identify system constraints and improve application performance.
 - Helps you maximize the performance of your existing applications and improve response time of online transactions and batch turnaround times.
 - Gives you the information needed to isolate performance problems in applications and test the effect of increased workloads on your systems.
 - Monitors, analyzes and reports the performance of CICS, Assembler, COBOL, PL/I, C/C++, DB2, IMS, WebSphere MQ and WebSphere Application Server applications.
 - Collects samples from the monitored address space and analyzes the system or resource application usage of CPU, DASD, I/O or the total address space.
 - Features online analysis reports that can be created as PDF or XML files, so that you can view them on workstations or transfer them easily to other applications.

1.2 PD Modernization Solution Pack FMIDs

PD Modernization 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:

HABRD10
JABRD1J
JABRD1K

- Application Performance Analyzer:

HAD0D10
JAD0D1J
JAD0D1K

- CCCA:

H09F210
J09F210

2.0 Program Materials

An IBM program is identified by a program number. The program number for PD Modernization Solution Pack is 5655-DMS.

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

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

2.1 Basic Machine-Readable Material

The distribution medium for this program is physical media or downloadable files. This program is in SMP/E RELFILE format and is installed by using SMP/E. See 6.0, "Installation Instructions" on page 15 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 Modernization Solution Pack in the *CBPDO Memo To Users Extension*.

To view the Program File Content of the products that constitute PD Modernization 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 GI13-3002 for Application Performance Analyzer
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

2.2 Optional Machine-Readable Material

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

2.3 Program Publications

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

Figure 1 identifies the basic unlicensed publications for PD Modernization Solution Pack. Those that are in softcopy format publications can be obtained from the IBM Publications Center website at: <http://www.ibm.com/shop/publications/order/>

Figure 1. Basic Material: Unlicensed

Publication Title	Form Number	Media Format
IBM Problem Determination Modernization Solution Pack for z/OS Agreements and License Information	LC27-6625	
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 Application Performance Analyzer for z/OS Program Directory	GI13-3002	
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 Modernization 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 GI13-3002 for Application Performance Analyzer
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

2.3.1 Optional Program Publications

No optional publications are provided for PD Modernization Solution Pack.

2.4 Program Source Materials

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

2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 2 on page 7 during the installation of PD Modernization Solution Pack.

<i>Figure 2. Publications Useful During Installation</i>		
Publication Title	Form Number	Media Format
<i>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</i>	GA22-7770	http://www.ibm.com/shop/publications/order/
<i>IBM SMP/E for z/OS Commands</i>	SA22-7771	http://www.ibm.com/shop/publications/order/
<i>IBM SMP/E for z/OS Reference</i>	SA22-7772	http://www.ibm.com/shop/publications/order/
<i>IBM SMP/E for z/OS User's Guide</i>	SA22-7773	http://www.ibm.com/shop/publications/order/

3.0 Program Support

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

3.1 Program Services

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

3.2 Preventive Service Planning

To view the Preventive Service Planning (PSP) for the products that constitute PD Modernization 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 GI13-3002 for Application Performance Analyzer
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

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 Modernization 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 GI13-3002 for Application Performance Analyzer
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

4.0 Program and Service Level Information

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

4.1 Program Level Information

To view the list of APAR fixes against the previous releases of the products that constitute PD Modernization 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 GI13-3002 for Application Performance Analyzer
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

4.2 Service Level Information

To view the Service Level Information of the products that constitute PD Modernization 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 GI13-3002 for Application Performance Analyzer
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

5.0 Installation Requirements and Considerations

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

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

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

Use separate driving and target systems in the following situations:

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

5.1 Driving System Requirements

This section describes the environment of the driving system required to install PD Modernization 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 one of the following:				
5694-A01	z/OS	V01.12.00	N/A	No
5650-ZOS	z/OS	V02.01.00	N/A	No

Note: SMP/E is a requirement for Installation and is an element of z/OS but can also be ordered as a separate product, 5655-G44, minimally V03.05.00.

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.

5.2 Target System Requirements

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

PD Modernization 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 Modernization 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 GI13-3002 for Application Performance Analyzer
- 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 Modernization 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 GI13-3002 for Application Performance Analyzer
- 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 Modernization 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 Modernization Solution Pack has no negative requisites.

5.2.3 DASD Storage Requirements

PD Modernization 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 Modernization 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 GI13-3002 for Application Performance Analyzer
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

5.3 FMIDs Deleted

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

If you do not want to delete these FMIDs at this time, install PD Modernization Solution Pack into separate SMP/E target and distribution zones.

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

5.4 Special Considerations

5.4.1 Subcapacity Reporting Tool Registration

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

Parmlib member IFAPRDxx needs to be updated as follows:

```
PRODUCT OWNER('IBM CORP')
NAME('IBM PD MD SO PAC')
ID(5655-DMS)
VERSION(*) RELEASE(*) MOD(*)
FEATURENAME('PR-DE-MD-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 PI19883 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 PI21196 must be installed.
 - A sample registration parmlib entry FMNWIFAT (included in the PTF for APAR PI21196), is provided in your hlq.SFMNSAM1 data set.
 3. For PDTCC:
 - No further action is required.
 4. For Debug Tool:
 - APAR PI19762 must be installed.
 - A sample registration parmlib entry EQAWIFAM (included in the PTF for APAR PI19762), is provided in your hlq.SEQASAMP data set.
 - Refer to the section "Enable/Register Debug Tool" in the Program Directory for IBM Debug Tool for z/OS.
 5. For Application Performance Analyzer:
 - APAR PI21804 must be installed.
 6. 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 Modernization 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 GI13-3002 for Application Performance Analyzer
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

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 Modernization Solution Pack.

Please note the following points:

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

6.1 Installing PD Modernization Solution Pack

6.1.1 SMP/E Considerations for Installing PD Modernization Solution Pack

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

To view the individual SMP/E installation instructions of each of the products that constitute PD Modernization 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 GI13-3002 for Application Performance Analyzer
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

6.2 Activating PD Modernization Solution Pack

To activate the individual products that constitute PD Modernization 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 GI13-3002 for Application Performance Analyzer
- Publication numbers GI10-5080 (English), and GI10-6976 (Japanese) for CCCA

7.0 Notices

This information was developed for products and services offered in the U.S.A. IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

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

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

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

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan, Ltd.
19-21, Nihonbashi-Hakozakicho, Chuo-ku
Tokyo 103-8510, Japan

7.1 Trademarks

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at www.ibm.com/legal/copytrade.shtml.

Reader's Comments

Program Directory for IBM Problem Determination Modernization Solution Pack for z/OS, August 2014

We appreciate your input on this publication. Feel free to comment on the clarity, accuracy, and completeness of the information or give us any other feedback that you might have.

Use one of the following methods to send us your comments:

1. Send an email to comments@us.ibm.com
2. Use the form on the Web at:

www.ibm.com/software/data/rcf/

When you send information to IBM, you grant IBM a nonexclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

IBM or any other organizations will only use the personal information that you supply to contact you about the issues that you submit.

Thank you for your participation.



Printed in USA

G113-2885-00

