



IBM Problem Determination Solution Packs help modernize applications and optimize IT resources

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At a glance

- Problem Determination Solution Pack for z/OS® , V1.1, is an all-in-one package that addresses and enhances your problem analysis needs.
- Problem Determination Testing Solution Pack for z/OS , V1.1 is an all-in-one testing package, that contains tools to address your testing needs.

For ordering, contact your IBM® representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: LE00).

Overview

The Problem Determination Solution Packs offer a convenient and more affordable way to purchase key products in the Problem Determination Tools family, at a reduced, inclusive price while benefiting from investments in previously purchased products.

Problem Determination Solution Pack for z/OS , V1.1 provides robust tooling, which allows you to utilize problem analysis capabilities for z/OS subsystems and languages in a cost-effective manner by using your choice of GUI or 3270 interface. It addresses and enhances your problem analysis needs. This is an offering of tools that assists with reducing IT costs by decreasing overall application development time, improving application reliability, and decreasing diagnosis time. Included are the following:

- IBM Debug Tool for z/OS , V13.1 (5655-Q10)
- IBM Fault Analyzer for z/OS , V13.1 (5655-Q11)
- IBM File Manager for z/OS , V13.1 (5655-Q12)
- IBM Workload Simulator for z/OS and OS/390® , V1.1 (5655-I39)
- IBM HourGlass V7.1 (5655-U59)
- IBM Data Set Commander for z/OS , V8.1 (5635-ISP)

Problem Determination Testing Solution Pack for z/OS , V1.1 provides support for debugging, code coverage, simulating time changes, and generating and executing simulated workloads - all important aspects of a robust z/OS-based testing environment. This set of test tools will assist you with reducing overall test time, by improving application reliability and diagnosis capabilities, and improving your ability to regulate and monitor testing activities. Included are the following:

- Debug Tool for z/OS , V13.1 (5655-Q10)

- Workload Simulator for z/OS and OS/390 , V1.1 (5655-I39)
- Hourglass V7.1 (5655-U59)

Being able to purchase multiple products under a single solution pack program number can help to simplify client procurement processes. The solution pack price represents a reduction in the aggregate price of the individual component products. If you have an active Subscription and Support (S&S) contract for a previously purchased product that is part of one of these solution packs, then you are eligible to receive Value Unit credit when trading up to a solution pack. For situations where a trade-up path for a given product version or program number is not expressly stated, contact your IBM representative.

For more details on the Problem Determination Tools family, visit

<http://www.ibm.com/software/awdtools/deployment/>

Key prerequisites

Problem Determination Solution Pack for z/OS , and Problem Determination Testing Solution Pack for z/OS run on any hardware configuration supported by the specified licensed z/OS programs.

For details, refer to the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

December 6, 2013

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™ and WebSphere® Application Server for z/OS 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 .

Problem Determination Testing 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. Debug Tool also includes features to help you identify old OS/VS and VS COBOL II source code and to upgrade the code to Enterprise COBOL.
 - Delivers a single debugging tool for batch, TSO, CICS , DB2 , DB2 stored procedures, and IMS applications written in COBOL, PL/I, C/C++, and Assembler.
 - Includes tools to quickly identify and convert OS/VS COBOL code to ANSI 85 standard.
 - Supplies tools to help you determine how thoroughly your code was tested.
- 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.

Section 508 of the US Rehabilitation Act

The products in this announcement are capable as of its general availability, when used in accordance with IBM documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

Value Unit-based pricing

Value Unit pricing for eligible IBM System z® IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each System z IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three digit code and referred to using the nomenclature VUExxx, where xxx is the three digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each System z IPLA program that you have acquired is referred to as **entitled license capacity**. If you wish to grow your entitled license capacity for a System z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each System z IPLA program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs
- Aggregate the MSUs across the enterprise
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool website

<http://ibm.com/zseries/swprice/vuctool>

Note that Value Units of a given product cannot be exchanged, interchanged, or aggregated with Value Units of another product.

To determine the required license capacity for the System z IPLA program you selected, refer to the [Terms and conditions](#) section.

Reference information

For information on CICS Solution Packs, refer to Software Announcement [213-487](#), dated October 22, 2013.

Program number

Program number	VRM	Program name
5655-PDS	V1.1	IBM Problem Determination Solution Pack for z/OS
5655-PSS	V1.1	IBM Problem Determination Solution Pack S&S
5655-DTS	V1.1	IBM Problem Determination Testing Solution Pack for z/OS
5655-TSS	V1.1	IBM Problem Determination Testing Solution Pack S&S

Product identification number

Program PID number	Subscription and Support PID number
5655-PDS	5655-PSS
5655-DTS	5655-TSS

Education support

For information on Web-based training, classroom-based training, on-site workshops and other educational resources available for the problem determination tools, refer to the IBM Education Assistant website

<http://publib.boulder.ibm.com/infocenter/ieduasst/stgv1r0/index.jsp>

Offering Information

Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

Publications

For Problem Determination Solution Pack for z/OS , V1.1 (5655-PDS), the program directories (GI13-2933, GI13-3004, GI10-8969, GI10-5080, GI10-8967, GI10-8968, GI10-8987, GI10-3234, and GI11-7890) and agreements and License Information (LC27-4559) are supplied automatically with the basic machine-readable material. For the Japanese version, the CCCA Japanese Program Directory (GI10-6976) is also supplied automatically with the basic machine-readable material. No other hardcopy publications are shipped with the product.

The following optional publications will be available at product availability:

- Debug Tool for z/OS User's Guide (SC14-7600)

- Debug Tool for z/OS Coverage Utility User's Guide and Messages (SC27-4651)
- Debug Tool for z/OS Reference and Messages (SC27-4652)
- Debug Tool for z/OS Reference Summary (SC14-7602)
- Debug Tool for z/OS Customization Guide (SC14-7601)
- Debug Tool for z/OS API User's Guide and Reference (SC27-4654)
- CCCA User's Guide (SC26-9400)
- Fault Analyzer for z/OS User's Guide and Reference (SC19-4116)
- File Manager for z/OS Customization Guide (SC19-4118)
- File Manager for z/OS User's Guide and Reference (SC19-4119)
- File Manager for z/OS User's Guide and Reference for DB2 Data (SC19-4120)
- File Manager for z/OS User's Guide and Reference for IMS Data (SC19-4121)
- File Manager for z/OS User's Guide and Reference for CICS (SC19-4122)
- IBM Problem Determination Tools for z/OS Common Component Customization Guide and User Guide (SC19-3690)
- Data Set Commander User's Guide (SC19-4182)
- Data Set Commander Installation and Customization Guide (GC18-4181)
- Hourglass Usage and Installation Guide (SC23-8561)
- Workload Simulator User's Guide (SC31-8948)
- Workload Simulator Utilities Guide (SC31-8947)
- Workload Simulator User Exits (SC31-8950)
- Workload Simulator Messages and Codes (SC31-8951)
- Workload Simulator Creating Scripts (SC31-8945)
- Workload Simulator Script Guide and Reference (SC31-8946)
- Workload Simulator Test Manager User's Guide and Reference (SC31-8949)

For Problem Determination Testing Solution Pack for z/OS , V1.1 (5655-DTS), the Program Directories (GI13-2930, GI13-3004, GI10-8969, GI10-5080, GI10-3234, and GI11-7890) and Agreements and License Information (LC27-4558) are supplied automatically with the basic machine-readable material. For the Japanese version, the CCCA Japanese Program Directory (GI10-6976) is also supplied automatically with the basic machine-readable material. No other hardcopy publications are shipped with the product.

The following optional publications will be available at product availability:

- Debug Tool for z/OS User's Guide (SC14-7600)
- Debug Tool for z/OS Coverage Utility User's Guide and Messages (SC27-4651)
- Debug Tool for z/OS Reference and Messages (SC27-4652)
- Debug Tool for z/OS Reference Summary (SC14-7602)
- Debug Tool for z/OS Customization Guide (SC14-7601)
- Debug Tool for z/OS API User's Guide and Reference (SC27-4654)
- CCCA User's Guide (SC26-9400)
- IBM Problem Determination Tools for z/OS Common Component Customization Guide and User Guide (SC19-3690)
- Hourglass Usage and Installation Guide (SC23-8561)
- Workload Simulator User's Guide (SC31-8948)
- Workload Simulator Utilities Guide (SC31-8947)
- Workload Simulator User Exits (SC31-8950)
- Workload Simulator Messages and Codes (SC31-8951)
- Workload Simulator Creating Scripts (SC31-8945)
- Workload Simulator Script Guide and Reference (SC31-8946)
- Workload Simulator Test Manager User's Guide and Reference (SC31-8949)

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM , you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=213-344>

Technical information

Specified operating environment

Hardware requirements

Problem Determination Solution Pack for z/OS , and, Problem Determination Testing Solution Pack for z/OS run on any hardware configuration supported by the following specified licensed z/OS programs.

The following minimum hardware levels are required to run the optional Problem Determination Tools Studio or product plug-ins:

- CPU: Intel™ Pentium™ 4 or equivalent
- RAM: At least 768 MB in addition to the operating system requirements
- Hard disk: At least 500 MB available space

Software requirements

Problem Determination Solution Pack for z/OS and Problem Determination Testing Solution Pack for z/OS run under the control of, or in conjunction with, the following programs.

Required software

One of the following:

- z/OS V2.1, or later (5650-ZOS)
- z/OS V1.12 or V1.13 (5694-A01)

Optional software

Depending on the functions used, one or more of the following programs may be required:

- AD/Cycle C/370™ V1.2 (5688-216)
- C/C++ for MVS/ESA V3 (5655-121)
- C/C++ Element in z/OS V1.13, or later (5694-A01)
- C/C++ Element in z/OS V2.1, or later (5650-ZOS)
- CICS TS for z/OS , V3 (5655-M15)
- CICS TS for z/OS , V4 (5655-S97)
- CICS TS for z/OS , V5.1 (5655-Y04)

- CICS TS for z/OS Value Unit Edition V5.1 (5722-DFJ)
- DB2 V9 for z/OS (5635-DB2)
- DB2 10 for z/OS (5605-DB2)
- DB2 11 for z/OS (5615-DB2)
- DB2 9 for z/OS Value Unit Edition (5697-P12)
- DB2 10 for z/OS Value Unit Edition (5697-P31)
- DB2 11 for z/OS Value Unit Edition (5697-P43)
- Enterprise COBOL for z/OS , V3.4 (5655-G53)
- Enterprise COBOL for z/OS , V4 (5655-S71)
- Enterprise COBOL for z/OS , V5.1 (5655-W32)
- Enterprise PL/I for z/OS , V3.9 (5655-H31)
- Enterprise PL/I for z/OS , V4.1 through V4.4 (5655-W67)
- High Level Assembler/MVS & VM & VSE V1.6 (5696-234)
- IBM 31-bit SDK for z/OS , Java 2 Technology Edition V6 with SR6, or later (5655-R31)
- IMS V11 (5635-A02)
- IMS V12 (5635-A03)
- IMS V13 (5635-A04)
- IMS Database Value Unit Edition, V12 (5655-DSQ)
- IMS Database Value Unit Edition, V13 (5655-DSM)
- Rational® Developer for System z V8.5.x or V9.0.x (5724-T07)
- WebSphere Application Server for z/OS , V6.1 (5655-N01)
- WebSphere Application Server for z/OS , V7.0 (5655-N02)
- WebSphere Application Server for z/OS , V8.0 or V8.5 (5655-W65)
- WebSphere MQ for z/OS , V7.0.x or V7.1.x (5655-R36)

The problem determination tools in this announcement are tested and supported for use only with the announced and currently supported levels of IBM software and hardware listed above. IBM knows of no reason the problem determination tools in this announcement will not work with certain earlier, unsupported IBM software products, specifically:

- z/OS V1.11 (5694-A01)
- C/C++ Element in OS/390 V2.10 (5647-A01)
- C/C++ Element in z/OS V1.11 or V1.12 (5694-A01)
- CICS TS for OS/390 , V1.3 (5655-147)
- CICS TS for z/OS , V2.2 or V2.3 (5697-E93)
- OS/VS COBOL V1.2.4 (5740-CB1), with limitations
 - Not supported by File Manager for z/OS
- VS COBOL II V1.3.1, V1.3.2, or V1.4 (5668-958, 5688-023), with limitations
 - Not supported by File Manager for z/OS
- COBOL for MVS and VM V1 (5688-197)
 - Not supported by File Manager for z/OS
- COBOL for OS/390 and VM V2.2 (5648-A25)
- Enterprise COBOL for z/OS , V3.1 through V3.3 (5655-G53)
- DB2 UDB for z/OS , and OS/390 , V7 (5675-DB2)
- DB2 UDB for z/OS , V8 (5625-DB2)
- High Level Assembler/MVS & VM & VSE, V1.5 (5696-234)
- IBM SDK for z/OS , Java 2 Technology Edition V1.4.2 with SR13, or later (5655-M30)

- IBM 31-bit SDK for z/OS , Java 2 Technology Edition V5 with SR10, or later (5655-N98)
- IMS V9 (5655-J38)
- IMS V10 (5635-A01)
- OS PL/I V2.1, V2.2, or V2.3 (5668-909, 5668-910), with limitations
- PL/I for MVS and VM V1.1.1 (5688-235)
- VisualAge® PL/I for OS/390 V2 (5655-B22)
- Enterprise PL/I for z/OS , V3.1 through V3.8 (5655-H31)
- WebSphere Application Server for z/OS , V6.0.1 (5655-N01)
- WebSphere MQ for z/OS , V6 (5655-L82)

IBM will undertake to fix problems found running the problem determination tools in this announcement with the above mentioned earlier, unsupported product levels. IBM must be able to reproduce the problem using a supported level of the same product. If the problem can be reproduced and fixed, the fix will be developed and tested using supported levels of IBM software. If a fix is made available, it is likely to work on the unsupported product level, however, IBM can not guarantee that the fix will work with the unsupported product.

Required software for the optional Problem Determination Tools Studio or plug-ins

The following software is required to run the optional Problem Determination Tools Studio V13 or product plug-ins:

- One of the following levels of the Microsoft™ Windows™ operating system:
 - Microsoft Windows XP (Professional), 32-bit
 - Microsoft Windows Vista (Business or Enterprise), 32-bit or 64-bit
 - Microsoft Windows 7 (Professional, Enterprise, or Ultimate), 32-bit or 64-bit
 - Microsoft Windows Server 2008 (Standard, Web, Enterprise, or DataCenter), 32-bit or 64-bit
 - Microsoft Windows Server 2008 R2 (Standard, Web, Enterprise, or DataCenter), 64-bit
- One of the following Eclipse-based platforms:
 - IBM Explorer for z/OS , V2.1, or later
 - CICS Explorer® (for Windows) V5.1, or later
 - IMS Enterprise Suite Explorer (for Windows) V2.2.0.2, or later
 - Rational Developer for System z , V9.0 (5724-T07)

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM , such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

Packaging

The Problem Determination Solution Pack for z/OS , V1.1 (5655-PDS) package includes:

- Basic machine-readable material on the customer-selected distribution medium
- Problem Determination Solution Pack Program Directory (GI13-2933)
- Debug Tool Program Directory (GI13-3004)
- Fault Analyzer Program Directory (GI10-8967)
- File Manager Program Directory (GI10-8968)

- Problem Determination Tools Common Component Program Directory (GI10-8969)
- CCCA Program Directory (GI10-5080)
- The CCCA Japanese Program Directory (GI10-6976), that is also included in the Japanese version
- Workload Simulator Program Directory (GI10-3234)
- Data Set Commander Program Directory (GI10-8987)
- Hourglass Program Directory (GI11-7890)
- Agreements and License Information (LC27-4559)

The Problem Determination Testing Solution Pack for z/OS , V1.1 (5655-DTS) package includes:

- Basic machine-readable material on the customer-selected distribution medium
- Problem Determination Testing Solution Pack Program Directory (GI13-2930)
- Debug Tool Program Directory (GI13-3004)
- Problem Determination Tools Common Component Program Directory (GI10-8969)
- CCCA Program Directory (GI10-5080)
- The CCCA Japanese Program Directory (GI10-6976), that is also included in the Japanese version
- Workload Simulator Program Directory (GI10-3234)
- Hourglass Program Directory (GI11-7890)
- Agreements and License Information (LC27-4558)

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Ordering information

Ordering z/OS through the Internet

ShopzSeries provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS . Additional products can also be added to your order (including determination of whether all product requisites are satisfied). ShopzSeries is available in the US and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries website at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

The products in this announcement have one charge unit - Value Units.

Charge metric

Program name	Program number	Charge metric
IBM Problem Determination Solution Pack for z/OS, V1	5655-PDS	Value Units
IBM Problem Determination Solution Pack for z/OS, Subscription & Support	5655-PSS	Value Units
IBM Problem Determination Testing Solution Pack for z/OS, V1	5655-DTS	Value Units
IBM Problem Determination Testing Solution Pack for z/OS, Subscription & Support	5655-TSS	Value Units

The programs in this announcement all have Value Unit-Based pricing.

Program number	Program name	Value Unit Exhibit
5655-PDS	IBM Problem Determination Solution Pack for z/OS, V1	VUE007
5655-PSS	IBM Problem Determination Solution Pack for z/OS, Subscription & Support	VUE007
5655-DTS	IBM Problem Determination Testing Solution Pack for z/OS, V1	VUE007
5655-TSS	IBM Problem Determination Testing Solution Pack for z/OS, Subscription & Support	VUE007

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the 'required license capacity'. Your required license capacity is based upon the following factors:

- The System z IPLA program you select.
- The applicable Value Unit Exhibit.
- The applicable terms.
- Whether your current mainframes are full capacity or sub-capacity.

Value Unit exhibit VUE001

Level	Value		Units/MSU
	Minimum	Maximum	
Base	1	3	5.25
Tier A	4	45	0.83
Tier B	46	175	0.35
Tier C	176	315	0.26
Tier D	316	+	0.20

Value Units for mainframes without MSU ratings:

Hardware	Value Units/machine
MP3000 H30	21
MP3000 H50	22
MP3000 H70	26
ESL models	9

VUE001 Ordering example

The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,000 MSUs for your selected System z IPLA product, the applicable Value Units would be:

Translation from MSUs to Value Units

	MSUs	*	Value Units/MSU	=	Value Units
Base	3	*	5.25	=	15.75
Tier A	42	*	.83	=	34.86
Tier B	130	*	.35	=	45.50
Tier C	140	*	.26	=	36.40
Tier D	685	*	.20	=	137.00
Total	1,000				269.51

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

Value Unit exhibit VUE007

	MSUS minimum	MSUS maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.2

Value Units for mainframes without MSU ratings:

Hardware	Value Units/machine
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL models	2

VUE007 Ordering example

The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,500 MSUs for your selected System z IPLA product, the applicable Value Units would be:

Translation from MSUs to Value Units

	MSUs	*	Value Units/MSU	=	Value Units
Base	3	*	1.00	=	3.00
Tier A	42	*	.45	=	18.90
Tier B	130	*	.36	=	46.80
Tier C	140	*	.27	=	37.80
Tier D	1,185	*	.20	=	237.00
Total	1,500				343.50

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

Basic license

On/Off Capacity on Demand

Problem Determination Solution Pack for z/OS , V1.1, and Problem Determination Testing Solution Pack for z/OS , V1.1 are eligible for On/Off Capacity on Demand (On/Off CoD) with a Temporary Use Charge calculated based on MSUs-per day usage.

Program Name IBM Problem Determination Solution Pack z/OS, v1.1
Program PID 5655-PDS

Entitlement identifier	Description	License option/Pricing metric
S017CGK	IBM Problem Determination Solution Pack for z/OS, v1 Trade-up from 5655-Q10 (Debug Tool) Trade-up from 5655-Q11 (Fault Analyzer) Trade-up from 5655-Q12 (File Manager) Trade-up from 5655-I39 (Workload Simulator) Trade-up from 5655-U59 (HourGlass) Trade-up from 5635-ISP (Data Set Commander)	Basic OTC, Per MSU-day TUC

Program Name IBM Problem Determination Testing Solution Pack z/OS, v1.1
Program PID 5655-DTS

Entitlement identifier	Description	License option/Pricing metric
S017CGR	IBM Problem Determination Testing Solution Pack for z/OS, v1 Trade-up from 5655-Q10 (Debug Tool) Trade-up from 5655-I39 (Workload Simulator) Trade-up from 5655-U59 (HourGlass)	Basic OTC, Per MSU-day TUC

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Program name IBM Problem Determination Solution Pack for z/OS, v1.1
Program PID 5655-PDS

Entitlement identifier	Description	License option/Pricing metric
S017CGK	IBM Problem Determination Solution Pack for z/OS, v1 Trade-up from 5655-Q10 (Debug Tool) Trade-up from 5655-Q11 (Fault Analyzer) Trade-up from 5655-Q12 (File Manager) Trade-up from 5655-I39 (Workload Simulator) Trade-up from 5655-U59 (HourGlass)	Basic OTC, Per Value Unit

Trade-up from 5635-ISP
(Data Set Commander)

Orderable supply ID:	Language	Distribution medium
S017CGL	English	3590 Tape
S017D9M	Japanese	3590 Tape
S017D9L	Korean	3590 Tape

Note: Additional media type selections are offered during Custom Build Offering ordering.

Subscription and Support PID 5655-PSS

Entitlement identifier	Description	License option/Pricing metric
S017D8L	IBM Problem Determination Solution Pack for z/OS S&S	Basic ASC, per Value Unit SW S&S No Charge, decline SW S&S Per MSU SW S&S Registration

Orderable supply ID:	Language	Distribution medium
S017D8K	English	Hardcopy publication
S017D9S	Japanese	Hardcopy publication
S017D9R	Korean	Hardcopy publication

Program name IBM Problem Determination Testing Solution Pack for z/OS, V1.1
Program PID 5655-DTS

Entitlement identifier	Description	License option/Pricing metric
S017CGR	IBM Problem Determination Testing Solution Pack for z/OS, V1 Trade-up from 5655-Q10 (Debug Tool) Trade-up from 5655-I39 (Workload Simulator) Trade-up from 5655-U59 (HourGlass)	Basic OTC, Per Value Unit

Orderable supply ID:	Language	Distribution medium
S017CGP	English	3590 Tape
S017D9P	Japanese	3590 Tape
S017D9N	Korean	3590 Tape

Note: Additional media type selections are offered during Custom Build Offering ordering.

Subscription and Support PID 5655-TSS

Entitlement identifier	Description	License option/Pricing metric
S017D8P	IBM Problem Determination Testing Solution Pack for z/OS S&S	Basic ASC, per Value Unit SW S&S No Charge, decline SW S&S Per MSU SW S&S Registration

Orderable supply ID:	Language	Distribution medium
S017D8N	English	Hardcopy publication
S017D9T	Japanese	Hardcopy publication
S017D9V	Korean	Hardcopy publication

Subscription and Support

To receive voice technical support via telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number (PID) referenced above and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance. This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

When Subscription and Support is ordered, the charges will automatically renew annually unless cancelled by you.

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives you rights and support services comparable to those under the traditional ICA S/390® and System z license or its equivalent. To ensure that you continue to enjoy the level of support you are used to in the ICA business model, you must order **both** the license for the program **and** the support for the selected programs at the same Value Unit quantities.

Single version charging

To elect single version charging, you must notify and identify to IBM the prior program and replacement program, and the machine the programs are operating on.

Customized Offerings

Product deliverables are shipped only via CBPDO and ServerPac. These customized offerings are offered for Internet delivery in countries where ShopzSeries product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the Shopz help information at

<http://www.software.ibm.com/ShopzSeries>

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options include:

- 3590
- 3592

Most products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered via CBPDO and , ServerPac. at general availability. Many products will also be orderable in a Product ServerPac without also having to order the z/OS operating system or subsystem.

Shopz and CFSW will determine the eligibility based on product requisite checking. For more details on the Product ServerPac, visit the Help section on the Shopz website at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after general availability.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures.

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

IBM System z Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information form number

Following are the License Information documents for the Problem Determination Tools:

- GI13-2932: Problem Determination Solution Pack for z/OS (5655-PDS)
- GI13-2931: Problem Determination Testing Solution Pack for z/OS (5655-DTS)

The program's License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

Trade-in terms for Problem Determination Solution Packs

IBM may offer trade-in terms for customers who have separately licensed one or more of the individual products that are included in a solution pack and who wish to trade in the licenses to one or more such individual products when licensing a solution pack. If IBM offers such trade-in terms, then as part of any such trade in, all entitlements to the products being traded in will be terminated. In some cases,

the entitlements to the solution packs being licensed by the customer as part of the trade-in arrangement may not be equal to the entitlements being terminated. For example, if the customer holds entitlement to 100 Value Units of product A which has been included in a solution pack, and is trading in its license to product A in return for 90 Value Units of the Solution Pack, then, in keeping with the specific trade-in terms, the customer agrees to terminate all its entitlements to product A (100 VUs).

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the *IBM Software Support Handbook* found at

<http://www.ibm.com/support/handbook>

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program support

Enhanced support, called Subscription and Support, includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

No

Passport Advantage applies

No

Software Subscription and Support applies

No. For operating system software, the revised IBM Operational Support Services - SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, visit

<http://www.ibm.com/services/sl/products>

IBM Operational Support Services - SoftwareXcel

Yes

System i® Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Yes. A 15% education allowance applies to qualified education institution customers.

Products eligible for single version charging

Replaced program number	Replaced program name	Replacement program number	Replacement program name
5734-CB4	COBOL Interactive Debug	5655-PDS	Problem Determination Solution Pack for z/OS, V1
5658-995	Inspect for C/370 and PL/I V1	5655-PDS	Problem Determination Solution Pack for z/OS, V1
5688-194	CODE/370 V1	5655-PDS	Problem Determination Solution Pack for z/OS, V1
5688-194	IBM Debug Tool for z/OS and OS/390, V1	5655-PDS	Problem Determination Solution Pack for z/OS, V1
5655-H32	IBM Debug Tool for z/OS and OS/390, V3	5655-PDS	Problem Determination Solution Pack for z/OS, V1
5655-L24	IBM Debug Tool for z/OS, V4	5655-PDS	Problem Determination Solution Pack for z/OS, V1
5655-M18	IBM Debug Tool for z/OS, V5	5655-PDS	Problem Determination Solution Pack for z/OS, V1
5655-P14	IBM Debug Tool for z/OS, V6	5655-PDS	Problem Determination Solution Pack for z/OS, V1
5655-R44	IBM Debug Tool for z/OS, V7	5655-PDS	Problem Determination Solution Pack for z/OS, V1
5655-S17	IBM Debug Tool for z/OS, V8	5655-PDS	Problem Determination Solution Pack for z/OS, V1
5655-103	IBM DITTO/ESA for MVS	5655-PDS	Problem Determination Solution Pack for z/OS, V1
5665-370	MVS/DITTO V1	5655-PDS	Problem Determination Solution Pack for z/OS, V1
5695-100	MVS/DITTO V2	5655-PDS	Problem Determination Solution Pack for z/OS, V1
5798-ARD	OS/DITTO	5655-PDS	Problem Determination Solution Pack for z/OS, V1

5798-CDA	OS/DITTO Extensions	5655-PDS	Problem Determination Solution Pack for z/OS, v1
5734-CB4	COBOL Interactive Debug	5655-DTS	Problem Determination Solution Pack for z/OS, v1
5658-995	Inspect for C/370 and PL/I v1	5655-DTS	Problem Determination Solution Pack for z/OS, v1
5688-194	CODE/370 v1	5655-DTS	Problem Determination Solution Pack for z/OS, v1
5688-194	IBM Debug Tool for z/OS and OS/390, v1	5655-DTS	Problem Determination Solution Pack for z/OS, v1
5655-H32	IBM Debug Tool for z/OS and OS/390, v3	5655-DTS	Problem Determination Solution Pack for z/OS, v1
5655-L24	IBM Debug Tool for z/OS, v4	5655-DTS	Problem Determination Solution Pack for z/OS, v1
5655-M18	IBM Debug Tool for z/OS, v5	5655-DTS	Problem Determination Solution Pack for z/OS, v1
5655-P14	IBM Debug Tool for z/OS, v6	5655-DTS	Problem Determination Solution Pack for z/OS, v1
5655-R44	IBM Debug Tool for z/OS, v7	5655-DTS	Problem Determination Solution Pack for z/OS, v1
5655-S17	IBM Debug Tool for z/OS, v8	5655-DTS	Problem Determination Solution Pack for z/OS, v1

Note: Only certain function in DITTO is replaced by File Manager. This should not imply that all of the function in other programs is replaced completely by their replacement programs.

Sub-capacity terms and conditions

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

For more information on the Value Unit Exhibit for the System z IPLA program you selected, refer to the [Ordering information](#) section.

Program number	Program name	Terms
5655-PDS	Problem Determination Solution Pack for z/OS, v1	Execution-based
5655-DTS	Problem Determination Testing Solution Pack for z/OS, v1	Execution-based

Full-capacity mainframes

In cases where full capacity is applicable, the following terms apply.

Execution-based, z/OS-based, full-machine-based: The required capacity of a System z IPLA program with these terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, visit

<http://www-1.ibm.com/servers/eserver/zseries/library/swpriceinfo/>

Reference-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Sub-capacity mainframes

In cases where sub-capacity is applicable, the following terms apply.

Execution-based: The required capacity of a System z IPLA sub-capacity program with these terms equals the capacity of the LPARs where the System z IPLA program executes.

z/OS-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of z/OS on the machines where the System z IPLA program executes.

Reference-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Full-machine-based: The required license capacity of a System z IPLA program with full machine based terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, refer to *The IBM System z Machines Exhibit*, (Z125-3901), or visit the Mainframes section of the System z Exhibits website.

<http://ibm.com/zseries/library/swpriceinfo/>

For additional information for products with reference-based terms, System z IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the System z IPLA program executes.

An environment is defined as either a single or stand-alone machine or a qualified Parallel Sysplex®. You may have one or more different environments across the enterprise. To determine the required license capacity for each System z IPLA program with referenced-based terms, each environment should be assessed separately.

When a System z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the System z IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one where MLC pricing is aggregated across the sysplex.

Sub-capacity eligibility

To be eligible for sub-capacity charging on select System z IPLA programs, you must first implement and comply with all terms of either sub-capacity Workload License Charges (WLC) or sub-capacity Entry Workload License Charges (EWLC). To implement sub-capacity WLC or EWLC, a machine must be System z (or equivalent). On that machine:

- All instances of the OS/390 operating system must be migrated to the z/OS operating systems.

- Any licenses for the OS/390 operating system must be discontinued.
- All instances of the z/OS operating systems must be running in z/Architecture® (64-bit) mode.

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, visit the System z Software Pricing website

<http://ibm.com/zseries/swprice>

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the IBM Customer Agreement - Attachment for System z Workload License Charges (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement - Attachment for IBM System z 890 and 800 License Charges (Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract - *Amendment for IBM System z9® and System z Programs Sub-Capacity Pricing* (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous System z IPLA sub-capacity terms and conditions.

Sub-capacity utilization determination

Sub-capacity utilization is determined based on the product's own execution as reported to IBM in accordance with the requirements for reporting sub-capacity utilization for products.

On/Off Capacity on Demand (CoD)

To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for IBM System z On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered destroyed or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

Prices

For additional information and current prices, contact your local IBM representative.

Information on charges is available at

<http://www.ibm.com/support>

Choose the option entitled Purchase / upgrade tools.

Program name IBM Problem Determination Testing Solution
Pack for z/OS, V1.1
Program PID 5655-PDS

Entitlement identifier	Description	License option /Pricing metric
S017CGK	IBM Problem Determination Solution Pack for z/OS, V1 Trade-up from 5655-Q10 (Debug Tool) Trade-up from 5655-Q11 (Fault Analyzer) Trade-up from 5655-Q12 (File Manager) Trade-up from 5655-I39 (Workload Simulator) Trade-up from 5655-U59 (HourGlass) Trade-up from 5635-ISP (Data Set Commander)	Basic OTC, Per Value Unit Basic OTC, Per MSU-day TUC

Program name IBM Problem Determination Testing Solution
Pack for z/OS, V1.1
Program PID 5655-DTS

Entitlement identifier	Description	License option/Pricing metric
S017CGR	IBM Problem Determination Testing Solution Pack for z/OS, V1 Trade-up from 5655-Q10 (Debug Tool) Trade-up from 5655-I39 (Workload Simulator) Trade-up from 5655-U59 (HourGlass)	Basic OTC, Per Value Unit Basic OTC, Per MSU-day TUC

Program name IBM Problem Determination Solution
Pack for z/OS, S&S
S&S PID 5655-PSS

Entitlement identifier	Description	License option/Pricing metric
S017D8L	IBM Problem Determination SW S&S Solution Pack for z/OS S&S	Basic ASC, per Value Unit No Charge, decline SW S&S Per MSU SW S&S Registration

Program name IBM Problem Determination Testing Solution
Pack for z/OS, S&S
S&S PID 5655-TSS

Entitlement identifier	Description	License option/Pricing metric
S017D8P	IBM Problem Determination SW S&S Testing Solution Pack for z/OS S&S	Basic ASC, per Value Unit No Charge, decline SW S&S Per MSU SW S&S Registration

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner for Software Value Plus. Additional information is also available at

<http://www.ibm.com/software/passportadvantage>

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Order now

To order, contact the Americas Call Centers or your local IBM representative, or your IBM Business Partner.

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For IBM Business Partner: pwcs@us.ibm.com
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Reference: LE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

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These products are available under IBM Software Value Plus, either directly from IBM or through authorized Business Partners who invest in skills and high-value solutions. IBM customers may benefit from the industry-specific or horizontal solutions, skills, and expertise provided by these Business Partners.

Additions to Software Value Plus will be communicated through standard product announcements. For a current list of IBM software available under Software Value Plus, visit

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http://www.ibm.com/partnerworld/page/svp_authorized_portfolio_contacts

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