IBM Rational Asset Analyzer V6.1 delivers enhanced application asset analysis capabilities

Table of contents

At a glance

Highlights of IBM® Rational® Asset Analyzer V6.1:

- Code review for COBOL provides a quick summary of all of the code level quality before the details can be viewed further in IBM Rational Developer for System z® .
- Language agnostic business logic discovery and taxonomy complement the existing COBOL business rule mining.
- Incremental scanning for performance.
- Collaborative use of IBM Rational Team Concert™ and Rational Asset Analyzer.
- Improvements in infrastructure and installation options on Microsoft™ Windows™ .
- Enablement of practical business rule mining for application modernization projects, either standalone or in concert with IBM Operational Decision Manager.
- Access to application knowledge through a comprehensive RESTful interface.
- Improved user experience through currency and usability infrastructure enhancements.

```
For ordering, contact Your IBM representative or an IBM Business Partner.
For more information contact the Americas Call Centers at
800-IBM-CALL (426-2255).

Reference: YE001
```

Overview

IBM Rational Asset Analyzer V6.1 creates a platform for business, IT, and operations to communicate and collaborate by referencing the same content on all levels of staffing in the enterprise. The application asset analysis and business logic, business process, and business rules are now placed next to each other in the same user interface (UI). This provides the capability to assert and share knowledge about the two way impact of a required change.

Rational Asset Analyzer V6.1 and Rational Asset Analyzer for System z V6.1 include capabilities for practical business rule modernization in concert with IBM Operational Decision Manager. Business Rule Modernization is the extraction of rules that are embedded in application code to be managed in IBM Operational Decision Manager. Incremental application modernization with managed business rules can help improve agility and faster time to market.

New in V6.1:

- COBOL code review provides an overview at the enterprise level that gives a quick summary of all the code level quality, before viewing details in IBM Rational Developer for System z , and allows programs to be selected for actual improvement and rules management using Rational Developer for System z .
- Language agnostic business rules give the user an enterprise solution for asserting, persisting, and sharing relationships between business and IT artifacts, including high level and detailed change impact analysis. This supplements the support for COBOL business rule mining and provides a consistent and easy way to capture human knowledge across the enterprise.
- Collaborative use of IBM Rational Team Concert and Rational Asset Analyzer is made easier through integration refinement and documentation.
- Improvements in infrastructure and installation options on Microsoft Windows , such as:
  - The option to use an embedded application server instead of IBM WebSphere® Application Server.
  - REXX no longer a mandatory prerequisite.
  - Java™ no longer a mandatory prerequisite.

Rational Asset Analyzer V6.1 continues to provide access to its repository of application knowledge through a comprehensive RESTful interface.

Key prerequisites

For details, refer to the Technical information section.

Planned availability date

- May 17, 2013: Electronic for distributed in English
- May 24, 2013: Media for distributed and System z in English

Description

Today's business climate challenges companies to be agile and to adapt to changes in time to make a difference. For the application development teams, this translates to delivering changes and enhancements in much shorter time frames, often days rather than months, and do this with less cost, less business risk, and fewer skills.

The ratio of available skills and detailed application knowledge, with respect to the application inventory, changes as teams shrink, leaving fewer people to deal with the growing diversity and complexity of the company's business application solution. It becomes crucial to have the ability to capture and work with knowledge about application structure, embedded business rules, relationships, control flows, and interdependencies with the databases, transactions, and batch jobs.

Application development teams who use IBM Rational Asset Analyzer V6.1 and IBM Rational Asset Analyzer for System z V6.1 can capture, maintain, and take advantage of application knowledge using a repository accessible to people via web and Eclipse interfaces, and programming via a RESTful interface.

Rational Asset Analyzer V6.1 and Rational Asset Analyzer for System z V6.1 can provide the knowledge that empowers application development teams to work more effectively and productively as they create a platform for business, IT, and operations to communicate and collaborate by referencing the same content on all levels of staffing in the enterprise.

The Rational application asset analysis capabilities are delivered in two product packages:

- Rational Asset Analyzer for System z executing in the z/OS® environment
- Rational Asset Analyzer executing in the Microsoft Windows environment

Rational Asset Analyzer for System z V6.1 is functionally equivalent to Rational Asset Analyzer V6.1 as they share a common code base. Rational Asset Analyzer for System z V6.1 offers the capability of scanning source and environmental information in place on z/OS . The Java scanning capabilities remain based on Windows or IBM AIX® platforms.

Rational Asset Analyzer V6.1 for the Windows environment includes licenses for IBM WebSphere Application Server and IBM DB2® , limited to use with Rational Asset Analyzer, consistent with the normally stand-alone nature of Windows deployments. Rational Asset Analyzer V6.1 is offered with the following pricing metrics: Authorized User Single Install and Floating User Single Install. Rational Asset Analyzer V6.1 scans z/OS source and Java assets on the Windows platform, and provides the capability to access z/OS configuration and environment information of interest.

To ensure a company is viable in the marketplace, it has to quickly adapt the rules that govern business decisions to changes in the marketplace. In most situations, business decisions are made using rules encoded in the application source and its databases. Being able to identify how decisions are made using what rules and where in the source those rules reside is key to being able to adapt.

Rational Asset Analyzer V6.1 and Rational Asset Analyzer for System z V6.1, working in collaboration with IBM Operation Decision Manager, make business rule identification projects more practical. Accessible through enhanced web interface technologies, the Rational Asset Analyzer V6.1 products support business rule assets and a business rule vocabulary, one that is consistent with, or even imported from, the IBM Operational Decision Manager vocabulary. Rational Asset Analyzer V6.1 and Rational Asset Analyzer for System z V6.1 support for business rule identification is implemented as a natural extension to the assets the software already analyzes. Rational Asset Analyzer V6.1 and Rational Asset Analyzer for System z V6.1 provide facilities to map the business terms used in rules to the terms the developers used in the code.

Users may need to do analysis of large code with the need to identify and assess potential problem areas and then create projects in Rational Developer for System z for detailed analysis and to make improvements. The current support for COBOL code review is available via a code review tab on the program summary and detail page. Rational Asset Analyzer's code review for COBOL allows users to monitor various COBOL program coding standards. It is designed to complement the code review for COBOL feature available in Rational Developer for System z . The code review component uses a predefined static set of 19 selected rules. When it is run against source code files, it identifies places in the code that violate one or more of these rules.

Users have a myriad of languages that may have business rules and logic, and may want to consistently tag all such rules across the enterprise. Rational Asset Analyzer V6.1 supplements the COBOL business rule mining by providing language agnostic business logic discovery and taxonomy that extends the use of Rational Asset Analyzer V6.1 across the enterprise for almost any type of artifact. The granularity of assets that can be mined for business logic are at the level of file, line, token, symbol, and so on and it is assessment based, for example, available from summary and detail pages. Capturing human knowledge in a consistent, predictable, and transparent way helps reduce the line of sight between business and IT functions, therefore, reducing uncertainty.

As a result of the source and environment scanning processes, Rational Asset Analyzer V6.1 and Rational Asset Analyzer for System z V6.1 can accumulate a wealth of application knowledge captured, organized, and persisted in the IBM DB2 relational database repository. While Rational Asset Analyzer V6.1 and Rational Asset Analyzer for System z V6.1 provide a great deal of in-depth analysis, complete

with web and Eclipse-based displays, there is always more to learn and more ways to use the persisted knowledge. The power of this knowledge extends far beyond the interfaces provided standard as part of the product. To that end, the repository data schema is documented and access to the repository is provided through a comprehensive RESTful interface. In addition, users can customize and enhance the existing user interface using custom queries, user-defined relationships, and user-defined metrics.

Collaborative use of IBM Rational Team Concert and Rational Asset Analyzer is made easier through integration refinement and documentation.

A significant amount of useful information about applications can be derived from unstructured data, especially when placed in the context of semantically annotated, structured data. Rational Asset Analyzer V6.1 and Rational Asset Analyzer for System z V6.1 distributed scanning provides an unstructured symbol scan capability. This allows symbols, essentially character sequences, to be added to the inventory. The symbol search, custom query, and relationship analysis functions broaden the application knowledge and enhances the usefulness of the analysis to language agnostic, shallow coverage of any file. This combination of deep analysis of z/OS assets and shallow level analysis of distributed assets across any type of files provides an enterprise level view of assets that can greatly enhance the line of sight for the business to its IT assets, thus, making strategic initiatives more successful.

Starting with Rational Asset Analyzer V6.1, the asset scanning can be done in an incremental way. This is made possible by use of the hash sum-based incremental scanning that lets users scan only changed files, based on their content and independently time stamped.

The V6.1 products provide many improvements in infrastructure and installation options for Microsoft Windows , such as the option to use an embedded application server instead of IBM WebSphere Application Server, removal of REXX as a mandatory prerequisite, and removal of Java as a mandatory prerequisite.

The user experience is crucial when working with the amount and diversity of knowledge available with Rational Asset Analyzer V6.1 and Rational Asset Analyzer for System z V6.1. Version 6.1 is part of an on-going effort to improve the usability, and thus the effectiveness, of the web user interface of Rational Asset Analyzer and Rational Asset Analyzer for System z . The user will notice additional user interface enhancements throughout V6.1 that are designed for improved usability and addressing client enhancement requests.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

   http://www.ibm.com/able/product_accessibility/index.html

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=213-166

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 for distributed products section.

Product positioning

As organizations grow, so does the complexity of the IT assets that could be the result of organic or inorganic growth. Today, the complexity spans across technology, domain, infrastructure, and geography. This can cause silos and more dependency on human knowledge. In turn, the line of sight between business, IT, development operations can get even wider.

In today's ever changing business dynamics and the quest to remain competitive, organizations have to make future decisions on budgets, such as where to invest and divest, and what is the best way to drive tangible benefits besides the market mandated requirements such as governance, compliance, change management, and so on. Managing all of these can be a difficult task for any organization and relying only on human knowledge or on limited documented catalogs can be like leaving everything on chance.

Rational Asset Analyzer V6.1 helps simplify all of this by providing a way to discover and catalog the enterprise's entire IT assets that are spread across mainframe and distributed environments. It provides ways to report on inventory, perform impact analysis for changes, and scan the repository from file systems to source control systems. All of this is possible because Rational Asset Analyzer V6.1 creates a platform for business, IT, and operations to communicate and collaborate by referencing the same content on all levels of staffing in the enterprise.

The highlight of the Rational Asset Analyzer V6.1 products is that they can help manage a very high volume of assets, which can potentially run into several millions and they can significantly help improve productivity over the conventional approach.

Collaborative use of Rational Team Concert and Rational Asset Analyzer is made more useable through integration refinement and documentation.

Program number

```
Program
number    VRM  Program name

5724-V27  6.1  IBM Rational Asset Analyzer
5655-W57  6.1  IBM Rational Asset Analyzer for System z
```

Product identification number for System z host product

```
                        Subscription and
Program PID number  Support PID number

5655-W57            5655-G49
```

Offering Information

Product information is available via the Offering Information website

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

Publications

No publications are shipped with this program.

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 where IBM does business.

Technical information

Specified operating environment

Hardware requirements

Hardware requirements for Microsoft Windows

- Processor: 1.6 GHz and MHz Intel™ Pentium™ ; recommended 1.6 GHz plus multicore 64 bit, or higher
- Memory minimum: Minimum 3 GB RAM; recommended 6 GB, or 8 GB if Rational Developer for System z or Eclipse will be running on the same machine
- Disk space: Minimum 2 GB (product installation) plus 1 GB for user data; recommended 10 GB; more needed in cases of very large amounts of user data
- Display: 1024 x 768 display minimum using 256 colors

Hardware requirements for z/OS

- IBM z/OS V1.12, or later

Software requirements

Software requirements for the Windows environment

Compatible Microsoft Windows operating systems include:

- Windows Server 2003 x86, 32 edition, and Standard and Enterprise editions
- Windows Server 2008 x86, 32 and 64 editions, and Standard and Enterprise editions
- Windows 7 x86, 32 and 64 editions, and Professional, Enterprise, and Ultimate editions
- Windows 8 x86, 32 and 64 editions, and Standard, Professional, and Enterprise editions

The machine on which you are installing Rational Asset Analyzer V6.1 must have supported versions of IBM DB2 , and may have a supported version of IBM WebSphere Application Server, and must be verified to be working properly.

Rational Asset Analyzer V6.1 ships with IBM DB2 Workgroup Server Edition V10.1 and IBM WebSphere Application Server V8.5, with licenses limited to use with Rational Asset Analyzer on Windows . In addition, Rational Asset Analyzer V6.1 includes an embedded application server that can be used instead of WebSphere Application Server.

One of the following IBM DB2 versions:

- IBM DB2 Enterprise Server Edition V9.5, or later
- IBM DB2 Workgroup Server Edition V9.5, or later
- IBM Database Enterprise Developer Edition V9.5, or later

WebSphere Application Server V7, or later (no Express® editions) is optional and can be used instead of the application server embedded in Rational Asset Analyzer V6.1.

Supported browsers:

- Google Chrome 24
- Microsoft Internet Explorer 9 and 10
- Mozilla Firefox ESR 10 and ESR 17

An Eclipse plug-in is provided for use with Rational Developer for System z V8.0.1, or later.

Software requirements for the z/OS environment

One of the following IBM DB2 editions:

- IBM DB2 for z/OS V9.1 (5635-DB2) and IBM DB2 Utilities Suite for z/OS V9.1 (5655-N97)
- IBM DB2 for z/OS V10.1 (5605-DB2) and IBM DB2 Utilities Suite for z/OS V10.1 (5655-V41)

Note: RUNSTATS in IBM DB2 Utilities Suite for z/OS is required for tuning the Rational Asset Analyzer repository.

One of the following WebSphere Application Servers programs:

- WebSphere Application Server for z/OS V7 (5655-N02)
- WebSphere Application Server for z/OS V8.0 (5655-W65)

- WebSphere Application Server for z/OS V8.5 (5655-W65)

For Rational Asset Analyzer for System z , you need to provide Java Runtime Environment (JRE) 6.0.

For Rational Asset Analyzer for System z scanning of distributed assets on IBM AIX , you need to provide Java JRE 6.0 on AIX .

For Rational Asset Analyzer for System z deploying the Rational Asset Analyzer web applications on Windows , you may optionally have the following installed:

- WebSphere Application Server V7, or later (no Express editions)
- IBM DB2 Connect™ Enterprise Edition V9.5, or later

For Rational Asset Analyzer for System z deploying the Rational Asset Analyzer web applications on IBM AIX , you must have the following installed:

- WebSphere Application Server V7, or later (no Express editions). Rational Asset Analyzer does not include an embedded application server for IBM AIX .
- IBM DB2 Connect Enterprise Edition V9.5, or later.

To access Rational Asset Analyzer programmatically:

- Use the Rational Asset Analyzer REST interface.
- If accessing IBM DB2 directly, use any supported IBM DB2 client or other method of issuing SQL commands against the Rational Asset Analyzer repository in IBM DB2 .
- If doing mash-ups or launching the user interface of Rational Asset Analyzer from another program, use the API website.

The following software is required if you plan to scan related source or runtime assets in Rational Asset Analyzer.

If you plan to scan IBM DB2 catalog information, any of the following:

- IBM DB2 for z/OS V8.1 (5625-DB2) with PTF UK00265
- IBM DB2 for z/OS V9.1 (5635-DB2)
- IBM DB2 for z/OS V10.1 (5605-DB2)

If you plan to scan IBM IMS™ database information in Rational Asset Analyzer, any one of the following is required:

- IMS V8 (5655-C56)
- IMS V9 (5655-J38)
- IMS V10 (5635-A01)
- IMS V11 (5635-A02)

If you plan to do IMS database description (DBD) and program specification block (PSB) control block analysis, IBM IMS Library Integrity Utilities for z/OS V1 (5655-I42) is required.

If you plan to do IBM CICS® region scanning in Rational Asset Analyzer, any one of the following is required:

- CICS Transaction Server V3.1 (5655-M15)
- CICS Transaction Server V4.1 or V4.2 (5655-S97)

If you plan to use the COBOL or PLI compiler-based scanning support:

- Enterprise COBOL for z/OS V3.4 with PTF UK17513 (5655-G53), or later
- Enterprise PL/I for z/OS V3.9 (5655-H31), or later

If you plan to scan Assembler, IBM High Level Assembler for MVS™ and VM and VSE V1.5 (5696-234), or later, is required.

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.

Limitations

Refer to **Usage restrictions** in the Terms and conditions section of this announcement and to the license information document that is available on the IBM Software License Agreement website

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

IBM Electronic Support

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement, at no additional charge.

Read about the Electronic Support portfolio of tools

   http://ibm.com/electronicsupport

Access the IBM Support Portal

   http://ibm.com/support

Access the online Service Request tool

   http://ibm.com/support/servicerequest

Planning information

Direct customer support

For the System z host product, direct customer support is provided by IBM Operational Support Services - SoftwareXcel. This fee service enhances your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services - SoftwareXcel helps answer questions pertaining to usage and suspected software defects for eligible products.

Installation and technical support is provided by Global Services. For more information call 800-IBM-4YOU (426-4968).

For technical support or assistance, contact your IBM representative or visit

   http://www.ibm.com/support

Packaging

Rational Asset Analyzer V6.1 (5724-V27) is distributed with:

- International Program License Agreement(Z125-3301)
- License Information document (L-DDCA-95GHC7)
- Rational Asset Analyzer V6.1
- WebSphere Application Server V8.5
- IBM DB2 Workgroup Server Edition V10.1
- Rational Asset Analyzer Quick Start Guide V6.1

- Rational Asset Analyzer Quick Start V6.1 CD-ROM

Rational Asset Analyzer for System z V6.1 (5655-W57) is distributed with:

- International Program License Agreement (Z125-3301)
- License Information document (L-DDCA-8X6M4T)
- 3590 tape

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

Rational Asset Analyzer V6.1 and Rational Asset Analyzer for System z V6.1 use the security and auditability features of the host hardware and operating system software. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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

The distributed product in this announcement is only available via Passport Advantage® . It is not available as shrinkwrap.

These products may only be sold directly by IBM or by authorized IBM Business Partners for Software Value Plus.

For more information about IBM Software Value Plus, visit

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

To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, visit

http://www.ibm.com/partnerworld/wps/bplocator/

```
Product group: Rational

Product
identifier    Product identifier description

5724-V27      IBM Rational Asset Analyzer V6.1
5655-W57      IBM Rational Asset Analyzer for System z V6.1

Product category: Rational Asset Analyzer
```

Ordering z/OS through the Internet

Shopz 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). Shopz 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

Ordering information for the distributed product in Passport Advantage

Program name/description	Part number
IBM Rational Asset Analyzer	
Authorized User Single Install	
License and Software Subscription and Support (SW S&S) 12 Months	D04M3LL
Annual SW S&S Renewal	E055HLL
SW S&S Reinstatement 12 Months	D04M4LL
Initial Fixed Term License and SW S&S 12 Months	D0BJLLL
Subsequent Fixed Term License and SW S&S 12 Months	E082ILL
Floating User Single Install	
License and SW S&S 12 Months	D0GKYLL
Annual SW S&S Renewal	E0APELL
SW S&S Reinstatement 12 Months	D0GKZLL
Initial Fixed Term License and SW S&S 12 Months	D0GM5LL
Subsequent Fixed Term License and SW S&S 12 Months	E0APULL

To order a media pack for Passport Advantage , specify the part number in the desired quantity from the following table:

Description	Part number
IBM Rational Asset Analyzer V6.1 DVD media pack - English	BT0IGML

The distributed product is also available via Web download from Passport Advantage .

Cross-platform product for use on System z

Order the part numbers that follow when the product is used for either the development of code that will be deployed on System z servers or when the product will be communicating or transferring data between a distributed server and a System z server. Otherwise order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

Program name/description	Part number
IBM Rational Asset Analyzer	
Authorized User Single Install for System z	
License and SW S&S 12 Months	D04M5LL
Annual SW S&S Renewal	E055ILL
SW S&S Reinstatement 12 Months	D04M6LL
Initial Fixed Term License and SW S&S 12 Months	D0BJMLL
Subsequent Fixed Term License and SW S&S 12 Months	E082JLL
Floating User Single Install for System z	

```
License and SW S&S 12 Months                              D0GL1LL
Annual SW S&S Renewal                                     E0APFLL
SW S&S Reinstatement 12 Months                            D0GL2LL
Initial Fixed Term License and SW S&S 12 Months           D0GM6LL
Subsequent Fixed Term License and SW S&S 12 Months        E0APVLL
```

Passport Advantage trade up

You must have previously acquired a license for the following precursor product to be eligible to acquire an equivalent license of the trade-up product.

```
Precursor product    Trade-up product       Trade-up part number

Rational Asset       Rational Asset         D0GL0LL
Analyzer Authorized  Analyzer Floating
User Single Install  User Single Install
License and SW S&S   License and SW S&S
12 Months            12 Months

Rational Asset       Rational Asset         D0GL3LL
Analyzer             Analyzer
Authorized User      Floating User
Single Install       Single Install
for System z         for System z
License and SW       License and SW
S&S 12 Months        S&S 12 Months
```

Consult your IBM representative if you have any questions.

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

```
Media pack description                        Part number

RAA 6.1 media pack                            BT0IGML
```

Charge metric

```
Program name              PID number  Charge metric

IBM Rational Asset Analyzer  5724-V27
                                      - Authorized User Single
                                        Install
                                      - Floating User Single
                                        Install

IBM Rational Asset Analyzer
 for System z              5655-W57    Value Unit
```

Authorized User Single Install

Authorized User Single Install is a unit of measure by which the program can be licensed. An Authorized User is a unique person who is given access to the program. An Install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. The program may be installed on any number of computers or servers, but if the Authorized User has accessed or has access to more than one Install of the program, the Authorized User requires a separate entitlement for each such Install. Licensee must obtain separate, dedicated entitlements for each Authorized User accessing the program on each Install in any manner directly or indirectly (for example, via a multiplexing program, device, or application server) through any means. An entitlement for an Authorized User is unique to that Authorized User and may not be shared, nor may it be reassigned other than for the permanent transfer of the Authorized User entitlement to another person.

Floating User Single Install

Floating User Single Install is a unit of measure by which the program can be licensed. A Floating User is a person who is accessing the program at any particular point in time. An Install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. The program may be installed on any number of computers or servers, but if the Floating User simultaneously accesses more than one Install of the program, the Floating User requires a separate entitlement for each such Install. Licensee must obtain separate entitlements for each Floating User simultaneously accessing the program on each Install in any manner directly or indirectly (for example, via a multiplexing program, device, or application server) through any means.

Millions of Service Units (MSUs)

MSUs are defined as one million Central Processing Unit (CPU) service units per hour, the measure of capacity used to describe the computing power of the hardware processors on which S/390® or System z software runs. MSU values are determined by the hardware vendor, IBM , or Software Compatible Vendors (SCVs).

Value Unit

Value Unit (VU) is a unit of measure by which the program can be licensed. Value Unit entitlements are based on the number of units of a specific designated measure used or managed by the program. Licensee must obtain sufficient entitlements for the number of Value Units required for licensee's environment for the designated measure specified in the Value Unit Exhibit (VUE) provided. Value Unit entitlements are specific to the program and may not be exchanged, interchanged, or aggregated with Value Unit entitlements of another program.

The System z program in this announcement has Value Unit-Based pricing.

```
Program
number      Program name                      Value Unit exhibit

5655-W57    IBM Rational Asset Analyzer for    VUE007
            System z V6.1
```

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 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

Ordering information for the MSU-based System z product

On/Off Capacity on Demand (CoD)

Rational Asset Analyzer for System z V6.1 is eligible for On/Off CoD with a temporary use charge calculated based on MSUs per-day usage.

Basic license

```
Translation from MSUs to Value Units

            MSUs        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
```

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 Rational Asset Analyzer for System z V6.1
Program PID: 5655-W57

Entitlement                            License option/
identifier   Description               Pricing metric

S016GZX      IBM Rational Asset Analyzer  Basic OTC, Per Value Unit
               for System z               Basic OTC, Per MSU-Day TUC

Orderable supply ID   Language                 Distribution medium

S016H02               English                  3590 tape

Subscription and Support PID: 5655-G49

Entitlement                            License option/
identifier   Description               Pricing metric

S00V941      IBM Rational Asset         Basic ASC, per Value Unit
               Analyzer for System z     SW S&S
               S&S                      No charge, decline SW S&S
                                        Per MSU SW S&S registration
```

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 this product 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.

Customized Offerings for z/OS products

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.

Terms and conditions for distributed products

This product is only available via Passport Advantage . It is not available as shrinkwrap.

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. Part number products only, offered outside of Passport Advantage , where applicable, are license only and do not include Software Maintenance.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

Agreement for Acquisition of Software Maintenance

The following agreement applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures:

- IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

This program is 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. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available. This program has 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.

License Information form number

L-DDCA-95GHC7.

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

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 technical support

Technical support of a program product will be available for a minimum of five years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support (Software Maintenance) also provides you with access to updates, releases, and versions of

the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM , including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

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 (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) 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.

Other terms

Volume orders (IVO)

No

IBM International Passport Advantage Agreement

Passport Advantage applies

Yes, and through the Passport Advantage website at

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

Usage restriction

Yes. Usage is limited to the quantity of licensed Authorized User Single Installs and Floating User Single Installs.

For additional information, refer to the License Information document that is available on the IBM Software License Agreement website

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

Software Subscription and Support applies

Yes. Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express . Product upgrades and Technical Support are provided by the Software Subscription and Support offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software and Technical Support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, consult your IBM Software Support Handbook at

Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under the applicable agreements.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage website at

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

Variable charges apply

No

Educational allowance available

Not applicable.

Terms and conditions for z/OS host products

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 subscription and support and does not require customer signatures.

This program is 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. This program has 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

L-DDCA-8X6M4T.

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

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 technical support

Technical support of a program product will be available for a minimum of five years from the general availability date, as long as your Subscription and Support is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Subscription and Support also provides you with access to updates, releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM , including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

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.

Other terms

Volume orders (IVO)

No

IBM International Passport Advantage Agreement

Passport Advantage applies

No

Usage restriction

Yes. Usage is limited to the quantity of Value Units licensed.

For additional information, refer to the License Information document that is available on the IBM Software License Agreement website

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

Software Subscription and Support (Software Maintenance) 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 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.

Sub-capacity terms and conditions for z/OS host products

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-W57  IBM Rational Asset Analyzer for System z  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 for z/OS host products

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.

IBM Electronic Services

Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support all at no additional cost to you.

Now integrated into the base operating system of AIX V5.3, AIX V6.1, and AIX V7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM , which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type smitty esa_main, and select Configure Electronic Service Agent . In addition, ESA now includes a powerful Web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more

information and documentation on how to configure and use Electronic Service Agent , refer to

http://www.ibm.com/support/electronic

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

Benefits

Increased uptime: The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the symptoms, diagnosing the error, and manually calling IBM Support to open a problem record. Its 24 x 7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

Security: The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM . The Electronic Service Agent tool securely transmits either via the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by the customer and IBM . The customer's business applications or business data is never transmitted to IBM .

More accurate reporting: Since system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, customers are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM , problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

Customized support: Using the IBM ID entered during activation, customers can view system and support information in the My Systems and Premium Search sections of the Electronic Support website at

http://www.ibm.com/support/electronic

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent . Reports are available for any system associated with the customer's IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium Search and the Electronic Service Agent information that has been collected from your system, customers are able to see search results that apply specifically to their systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

http://www.ibm.com/support/electronic

Prices

Information on charges is available at website

http://www.ibm.com/support

In the Electronic tools category, select the option for Purchase/upgrade tools.

Passport Advantage for the distributed product

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

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

Business Partner information

If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM , you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBM ID and password are required.

https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller

For informaiton on how to become an Authorized Business Partner in IBM Software Value Plus, visit website

https://www-304.ibm.com/partnerworld/wps/servlet/ContentHandler/svp

IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

http://www.ibm.com/financing

IBM Global Financing offerings are provided through IBM Credit LLC in the United States, and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

Financing from IBM Global Financing helps you preserve cash and credit lines, enables more technology acquisition within current budget limits, permits accelerated implementation of economically attractive new technologies, offers payment and term flexibility, and can help match project costs to projected benefits. Financing is available worldwide for credit-qualified customers.

For more financing information, visit

http://www.ibm.com/financing

Order now

To order, contact your local IBM representative or your IBM Business Partner.

To identify your local IBM Business Partner or IBM representative, call 800-IBM-4YOU (426-4968). For more information, contact the Americas Call Centers.

```
Phone:     800-IBM-CALL (426-2255)
Fax:       800-2IBM-FAX (242-6329)

For IBM representative: callserv@ca.ibm.com


For IBM Business Partner: pwswna@us.ibm.com

Mail:      IBM Teleweb Customer Support
           ibm.com® Sales Execution Center, Americas North
           3500 Steeles Ave. East, Tower 3/4
           Markham, Ontario
           Canada  L3R 2Z1

Reference: YE001
```

The Americas Call Centers, IBM's 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.

IBM Software Value Plus

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

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

For questions regarding Software Value Plus, visit

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

Trademarks

Rational Team Concert, DB2 Connect, IMS, MVS and Electronic Service Agent are trademarks of IBM Corporation in the United States, other countries, or both.

IBM, Rational, System z, WebSphere, z/OS, AIX, DB2, PartnerWorld, Express, CICS, Passport Advantage, S/390, Parallel Sysplex, OS/390, z/Architecture, System z9 and ibm.com are registered trademarks of IBM Corporation in the United States, other countries, or both.

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

Intel and Pentium are trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Other company, product, and service names may be trademarks or service marks of others.

Terms of use

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Additional terms of use are located at

http://www.ibm.com/legal/us/en/

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

http://www.ibm.com/planetwide/us/