At a glance

WebSphere Studio Asset Analyzer can help to speed application changes and improve quality by automating the discovery phase of a development cycle, which can consume nearly a third of a project's total development costs. WebSphere Studio Asset Analyzer can help to:

• Reduce the complexity of software projects by delivering up-to-date knowledge of application components from the code itself, supplementing outdated or nonexistent developers' and analysts' documentation
• Improve process and team efficiency by making the same application insight available to all team members
• Shorten the learning phase for new developers
• Improve project estimates and meet quality targets by reporting the complexity of your programs using common industry metrics
• Improve confidence levels that necessary changes have been identified and reduce outages resulting from incomplete analysis

Overview

An IT organization's existing applications are its most valuable assets, and maintaining them consumes a large portion of the typical IT budget. With WebSphere® Studio Asset Analyzer, IT organizations can increase maintenance productivity and accelerate projects, which transform applications so that your business can respond more flexibly to changing markets and IT requirements. This includes existing applications for Web services and a service-oriented architecture (SOA).

The following examples show the way WebSphere Studio Asset Analyzer can help cut through the complexity of today's enterprise applications and respond to business requirements faster and more effectively:

• Reduce the time and effort required when analyzing program changes
• Improve confidence levels that necessary changes have been identified and reduce outages resulting from incomplete analysis
• Help developers learn a new code base faster
• Help junior programmers to work "above their experience level"
• Scope projects better, thereby making business groups happier with on-time delivery
• Document applications to help meet Sarbanes Oxley (SOX) and other compliance requirements
• Improve disaster recovery with better application documentation and increased confidence that the location of all source for applications is known

• Improve operational effectiveness by enabling application and operational teams to find interdependencies among programs and data and thereby better manage changes to production environments

WebSphere Studio Asset Analyzer V5.1 assists IT personnel with the maintenance, extension, reuse, and transformation of existing applications through rapid application understanding and impact analysis. It provides in-depth insight into dependencies within and among enterprise application components — including composite applications that span mainframe and distributed components.

Key prerequisites

For details, refer to the Software requirements section.

**Program number:** For details, refer to the Product number section in this announcement.

**Planned availability dates**

- March 9, 2007: English, Japanese
- May 25, 2007: Korean

**AP distribution**

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*Brunei Darussalam, Indonesia, Cambodia, Lao People’s Democratic Republic, Malaysia, Philippines, Singapore, Thailand, Vietnam

**Bangladesh, Bhutan, India, Sri Lanka, Maldives, Nepal, Afghanistan

**Description**

Enterprises may have hundreds of project teams making changes to application code and the structure of shared data at the same time. These changes occur across hundreds of thousands of programs and batch jobs and touch thousands of DB2® tables, columns, and VSAM files. To avoid system outages caused by these changes, a project team must identify:

• Affected source within its application

• Other affected project teams and existing applications

Then these modifications must be deployed into QA and production environments in a highly synchronized manner.

For the project team, it is not trivial to identify all potential impacts of a change in their own application. For example, if you need to increase the size of your part number field as a result of a recent merger or acquisition, you must try to find every place in every source code file where part number is used as well as every other named variable that is a synonym of part number. This requires a detailed impact/dependency analysis across all your programs, copybooks, map sets, and so on. This may include tens of thousands of files and millions of lines of code. Then, it is not surprising that many system outages are related to change events.
WebSphere Studio Asset Analyzer helps analysts, developers, architects, and operations teams
cut through the complexity of their applications and interdependencies to work faster and with
better quality. WebSphere Studio Asset Analyzer helps you:

- Understand MVS™ and Java™ Enterprise Edition (Java EE) application assets and their
  relationships through interactive textual and graphical reports
- Identify the artifacts that a proposed code or operational change affects, and make changes
  with more confidence, greater speed, and less risk
- Identify information about connectors for Web-enabled applications
- Identify business processes and flows
- Identify application dependencies at multiple levels, including:
  - Jobs and transactions
  - Files and databases
  - Programs and applications
    - Written in COBOL, PL/I, Assembler, Java EE, and various distributed text formats
      including HTML and XML
    - For CICS®, IMS™, WebSphere Application Server, WebSphere MQ, and DB2
    - On z/OS®, pSeries® AIX®, and Microsoft™ Windows™ operating systems
  - Composite applications that span mainframe and distributed systems

WebSphere Studio Asset Analyzer can help you to find mainframe application relationships in
seconds that might otherwise take much longer to find. The following are some examples:

- Listing the batch jobs that use a program
- Listing the COPY and INCLUDE files used by a program
- Listing the data elements or data sets used by a program
- Listing the DB2 columns, tables or stored procedures used by a program
- Listing the entry points with a matching name pattern
- Listing the programs that call or are called by a particular program
- Listing the run units or transactions that include a particular program
- Viewing the control flow of a program
- Viewing the high-level structure of a program
- Browsing the source code for a program
- Listing the source needed to build a run unit
- Viewing the calling hierarchy for a run unit
- Listing the CICS files or CICS groups for an online region
- Listing the CICS programs
- Listing the transactions and their flow in a CICS group
- Viewing the transaction flow for a CICS or IMS transaction
- Listing the batch jobs that use an IMS program specification control block (PSB)
- Listing the PCBs defined for a PSB
- Listing the transactions that use a PSB
- Listing the batch jobs, transactions, or programs that use a data set
- Listing the programs that use a DB2 column, table, or stored procedure
- Listing the views that use a DB2 column or table
- Viewing a diagram of the assets that make up an application
- Viewing the transaction flow in an application

WebSphere Studio Asset Analyzer scans Java source code and bytecode — including Java Archive (JAR), Web Archive (WAR), and Enterprise Archive (EAR) files — and employs more than 40 Java EE and distributed scanners, and patented pattern matching technology to help you understand and manage change in your existing Java EE legacy application inventory.

WebSphere Studio Asset Analyzer can help you to find Java EE information and relationships in seconds that might otherwise take much longer to find. The following are some examples:

- Finding interrelationships among components and viewing these relationships at a detailed or aggregate level
- Analyzing a Java EE application before changing its segmentation, for example, separating some classes files into their own utility.jar file, or separating out some code into its own package
- Finding which applications (WARs or EARs) include a particular method, class, JAR, or WAR file
- Listing the most recently modified archive files
- Viewing a count breakdown of Enterprise JavaBeans (EJBs) by type or in each EJB-JAR
- Finding the most complex Java bytecode classes
- Viewing the incoming and outgoing references to a Java method, class, or field
- Viewing any incoming or outgoing references to a particular WAR file or any assets in the WAR file
- Determining the primary developer of a Java EE component

Note: Much of this information can be determined from Java bytecode alone.

WebSphere Studio Asset Analyzer can be used to determine an entire chain of dependencies across the applications in your enterprise — more than searching for textual strings in your source code. By understanding your applications at a semantic level, WebSphere Studio Asset Analyzer can help you to identify the impacts to a proposed change faster and with fewer errors, when, for example:

- Expanding the size of a data element field
- Changing an interface (that is, entry point parameters)
- Changing a transaction
- Changing the characteristics of a data set or data store
- Adding columns to a DB2 view or DB2 table
- Renaming a DB2 column or table
- Changing the content of a Java package
- Changing the content of a Jar file
- Deleting a Java Class or JavaServer Pages (JSP) file
- Removing methods from an EJB
- Renaming a servlet

WebSphere Studio Asset Analyzer consists of the following components:

- Source scanners running on z/OS and AIX or Windows
- Metadata repository in DB2 on z/OS
- Web applications running on z/OS, AIX, or Windows systems

WebSphere Studio Asset Analyzer open architecture offers:

- Interactive access to WebSphere Studio Asset Analyzer application insight through a Web
Programmatic access through direct SQL queries, a Web service API, or a URL-based API

The option to customize the delivery of WebSphere Studio Asset Analyzer application insight to meet the unique requirements of your organization — To be accomplished through the custom query facility, group bookmarks, and configuration of displayable metrics/statistics

WebSphere Studio Asset Analyzer scans mainframe and distributed software assets, storing related application information in a DB2 repository that resides on the mainframe. You do not have to download your application inventory to a workstation, nor do you have to upload your distributed application inventory to a mainframe. WebSphere Studio Asset Analyzer scans source where it lives, whether that is in Partitioned Data Set/Partitioned Data Set Extended (PDS/PDSE) datasets on the mainframe, directories on Windows or AIX, or one of a number of software configuration management systems (SCMs).

For distributed assets, WebSphere Studio Asset Analyzer supports scanning from IBM Rational ClearCase®, Concurrent Versions System (CVS), and Polytron Version Control System (PVCS). For mainframe assets, Serena ChangeMan ZMF and Software Configuration and Library Manager (SCLM) are supported. Other SCMs may be supported through a user exit. A customer-supplied program calls the SCM. (Some programming is required.) Web applications can be scanned from WebSphere Application Servers running on either Windows or AIX (and remotely on Linux™, Solaris, and other platforms). Along with your application source, WebSphere Studio Asset Analyzer scans mainframe CICS and IMS subsystems, the DB2 catalog, and WebSphere Application Server domains.

**New in V5.1**

- Improved composite and Web service application support, including the following:
  - Scanning Web services information and including these in impact analysis results
  - Automated detection of some composite application relationships, including EJB query language (EJB-QL)
  - Wizard for manually articulating relationships between assets
  - Support for scanning CICS Transaction Server V3.1 Web service constructs in application source code (for example, "EXEC CICS INVOKE WEB SERVICE")
- Expanded metrics support
  - New open metrics framework provides a way to plug in custom-written metrics engines or other tools.
  - Metrics are more visible and contextual in the user interface.
- Improved tool integration
  - Expanded URL application programming interface for mashup-like integrations
  - Expanded Web service interface for getting data into and out of the WebSphere Studio Asset Analyzer repository
    -- New API for retrieving application source files
    -- New asset types and product functions that are available
- Updated support of other software products
  - WebSphere Application Server V6.1 (including on System z™)
  - CICS Transaction Server V3.1 (including CHANNEL and CONTAINER support)
  - Latest syntax in Enterprise COBOL and Enterprise PL/I
- Numerous usability and performance enhancements

**Value Unit-based pricing**

Value Unit pricing for eligible IBM eServer® 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 Web site [http://ibm.com/zseries/swprice/vuctool](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.

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**Product positioning**

WebSphere Studio Asset Analyzer is part of the IBM solution set for accelerating application transformation and modernization. Other related products include the following:

- WebSphere Developer for System z offers a single Eclipse-based environment for developing and maintaining a new generation of COBOL, PL/I, C, Java, Web, and Web services applications.
- IBM Asset Transformation Workbench simplifies and accelerates large mainframe application transformation projects with business rule management and code restructuring tools.
- WebSphere Host Access Transformation Services (HATS) provides tools to extend existing terminal applications quickly and easily to Business Partners, customers, and employees. In addition to transforming the end-user experience of existing applications, HATS can be used to transform and expand the connectivity of existing terminal applications by extending the applications as Web services. Web services generated with HATS are deployed to a WebSphere Application Server.
- IBM Asset Transformation Workbench Analyzer for Eclipse provides developers with analysis capabilities to better understand their application as well as allows them to determine how a change will impact other parts of an application.
- Service Flow Modeler can be used with HATS, WebSphere or any supported release of CICS Transaction Server to record CICS terminal oriented application screen sequences and then, using HATS with WebSphere, to configure and deploy the results as Web services. The Solution assets resulting from this approach can be redeployed from Service Flow Modeller directly on to CICS Transaction Server V3, enabling easy forward migration of existing solution assets. Additionally, service flows can be modeled in WebSphere Developer for zSeries® and deployed directly to CICS Transaction Server V3.
- CICS Interdependency Analyzer, which provides a detailed understanding of your CICS
application inventory through runtime analysis of CICS systems

- WebSphere Service Registry and Repository
- IBM Tivoli® and OMEGAMON® product families and associated IT Service Management best practices — especially the Tivoli Composite Application Manager family of products.
- IBM Rational Application Developer, Rational Software Architect, and other tools that are part of the IBM Software Development Platform.

**Product Positioning — Globalization:**
WebSphere Studio Asset Analyzer V5.1 is available in English, Japanese, and Korean.

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**Availability of national languages**

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Java is a trademark of Sun Microsystems, Inc.

Linux is a trademark of Linus Torvalds in the United States, other countries or both.

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

**Education support**

**Consulting and services**

IBM consultants offer training services to provide:
• Installation, configuration, and inventory collection assistance

• Mentored workshop

**Installation, configuration, and inventory collection assistance:** The IBM consultant will work with your system administrators to install and configure the WebSphere® Studio Asset Analyzer host components. The IBM consultant will work with your staff to scan your application components to build application information files, then load the information into the database. This is the base line preparation needed to be productive using WebSphere Studio Asset Analyzer to explore your applications or perform a change impact analysis.

This services engagement offers faster implementation of WebSphere Studio Asset Analyzer, resulting in fewer technical problems, ease of deployment within your development community, and maximization of your staff's productivity. It leverages experienced IBM consultants to:

• Verify your setup of WebSphere Studio Asset Analyzer prerequisite software and hardware

• Assist with the System Modification Program/Extended (SMP/E) installation and configuration of the WebSphere Studio Asset Analyzer host components, as well as workstation components

• Create, configure, and verify the DB2® database

• Configure the IBM HTTP Server and WebSphere Application Server

• Verify the host and distributed workstation/server communication elements, if applicable

• Review and explain the documentation, with a focus on important user definition files

• Perform inventory collection to analyze and store metadata about source programs, Job Control Language (JCL), CICS® basic mapping support (BMS) maps, CICS region, IMS™ resources, JAR, WAR, and EAR files, and so on

• Demonstrate WebSphere Studio Asset Analyzer exploration and analysis via the browser-based user interface

• Invoke and customize, as appropriate, the analyzers to scan your application resources

• Review the results with key application management/staff personnel

**Mentored workshop:** The IBM consultant will conduct a training workshop for your selected employees in the use of WebSphere Studio Asset Analyzer. Your team will get an overview of the features of the product with hands-on training to analyze the interdependencies and relationships of the pieces of your applications. They learn to use the tools to identify impacts caused by proposed changes. Your team will utilize the captured data from your applications — the programs with which they are familiar. This offering will:

• Describe the analyzers for source programs, JCL, CICS BMS maps, CICS region, IMS resources, jar files, and so on

• Demonstrate how to view relationships between your programs, data, and JCL

• Show you how a change will impact your application

• Explain the output from the tools and how to read the information in the reports

The services offerings are quick-start, hands-on training for your developers to promote WebSphere Studio Asset Analyzer understanding and acceptance. Use of your application data ensures immediate utilization of the tools with relevant training for your intended WebSphere Studio Asset Analyzer usage. Get started today and maximize your staff's productivity by leveraging the experienced IBM consultants.

**Offering Information**

Product information is available via the Offering Information Web site

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

**Publications**

IBM Asia Pacific Announcement AP07-0038
The Program Directory (GI10-8757) and License Information (GC19-1154) are supplied automatically with the basic machine-readable material. No other hardcopy publications are shipped with the product.

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 U.S.) or customer number for 50 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.

**Displayable softcopy publications:** WebSphere Studio Asset Analyzer V5 publications are offered in displayable softcopy form. The displayable manuals are part of the basic machine-readable material.

### Technical information

#### Specified operating environment

**Hardware requirements:** WebSphere Studio Asset Analyzer will run on any hardware configuration supported by the licensed programs specified in the following:

**Software requirements:** WebSphere Studio Asset Analyzer V5.1 software requirements can be grouped into run-time prerequisites and scanning prerequisites.

**WebSphere Studio Asset Analyzer runtime prerequisites for run-time components:** z/OS® V1.6 (5694-A01), or later

One of the following:

- DB2 UDB for z/OS and OS/390® V7 (5675-DB2), Service Level UQ96293, or later, and DB2 Utilities Suite for z/OS V7.1 (5697-E98)
- DB2 UDB for z/OS V8.1 (5625-DB2), Service Level UK00265, or later, and IBM DB2 Utilities Suite for z/OS V8.1 (5655-K61)
- DB2 for z/OS V9.1 (5635-DB2), and IBM DB2 Utilities Suite for z/OS V9.1 (5655-N97)

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

One of the following:

- WebSphere Application Server for z/OS V5.1 (5655-I35), Service Level UQ96206, or later, installed on the host with WebSphere Studio Asset Analyzer
- WebSphere Application Server for z/OS V6.0.1 (5655-N01), Service Level UK05470 or later (V6.0.x), installed on the host with WebSphere Studio Asset Analyzer
- WebSphere Application Server for z/OS V6.1 (5655-N01), or later installed on the host with WebSphere Studio Asset Analyzer

If scanning distributed assets or deploying the WebSphere Studio Web applications on Windows™ or AIX®, you must have the following installed on Windows or AIX:

- One of the following:
  - WebSphere Application Server V5.1 installed on a server or workstation running Windows Server 2003 Datacenter/Enterprise/Standard (SP1, or later) or AIX 5L™ 5.2 or 5.3
  - WebSphere Application Server Express V5.1 installed on a server or workstation running Windows Server 2003 Datacenter/Enterprise/Standard (SP1, or later) or AIX 5L 5.2 or 5.3
  - WebSphere Application Server V6.0.2.15, installed on a server or workstation running Windows Server 2003 Datacenter/Enterprise/Standard (SP1, or later) or AIX 5L 5.2 or 5.3
WebSphere Application Server Express V6.0.2.15, installed on a server or workstation running Windows Server 2003 Datacenter/Enterprise/Standard (SP1, or later) or AIX 5L 5.2 or 5.3

WebSphere Application Server V6.1, installed on a server or workstation running Windows Server 2003 Datacenter/Enterprise/Standard (SP1, or later) or AIX 5L 5.2 or 5.3

WebSphere Application Server Express V6.1, installed on a server or workstation running Windows Server 2003 Datacenter/Enterprise/Standard (SP1, or later) or AIX 5L 5.2 or 5.3

- Java™ Runtime Environment (JRE) as supported by WebSphere (for example, JRE 1.4.2 with WebSphere Application Server V6.0.1)

- One of the following:
  - DB2 Connect® Enterprise Edition V7.02 (5648-D42)
  - DB2 Connect Enterprise Edition V8.1 (5765-F30)
  - DB2 Connect Enterprise Edition V9.1 (5765-F30)

To access WebSphere Studio Asset Analyzer from a client workstation, use Microsoft™ Internet Explorer 6.0, or later. WebSphere Studio Asset Analyzer takes advantage of Adobe technology to render graphics in scalable vector graphics (SVG) format. Currently, the Adobe Web browser plug-in for SVG exists in its most robust form only for Internet Explorer. However, when similar support exists for other Web browsers, the WebSphere Studio Asset Analyzer will extend its support to these other browsers.

To access WebSphere Studio Asset Analyzer programmatically

- If using Web services, use the WebSphere Studio Asset Analyzer Web services API
- If accessing DB2 directly, use any supported DB2 client or other method of issuing SQL commands against the WebSphere Studio Asset Analyzer repository in DB2
- If doing mash-ups or launching the user interface of WebSphere Studio Asset Analyzer from another program, use the URL API

**WebSphere Studio Asset Analyzer scanning prerequisites:** The following software is required if you plan to scan related source or runtime assets in WebSphere Studio Asset Analyzer.

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

- DB2 UDB for z/OS and OS/390 V7 (5675-DB2) with PTF UQ96293, or later
- DB2 UDB for z/OS V8.0.1 (5625-DB2) with PTF UK00265, or later
- DB2 for z/OS V9 (5635-DB2), or later

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

- IMS V6 (5655-158)
- IMS V7 (5655-B01)
- IMS V8 (5655-C56)
- IMS V9 (5655-J38)
- IMS V10 (5635-A01)

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

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

- CICS Transaction Server V2.2 or V2.3 (5697-E93)
- CICS Transaction Server V3.1 (5655-M15)
If you plan to use the COBOL and/or PLI compiler-based scanning support:

- Enterprise COBOL for z/OS V3.3 with PTF UQ97019 or V3.4 with PTF UK17513 (5655-G53)
- Enterprise PL/I for z/OS V3.3 with PTF UK06462 or V3.4 or V3.5 or V3.6 (5655-H31)

If you plan to scan Assembler, High Level Assembler for MVS™ and VM and VSE V1.4 or V1.5, or later (5694-234) is required.

If you plan to scan from Serena ChangeMan ZMF, Serena ChangeMan ZMF V5.3 is required.

If you plan to scan from CVS, CVS client 1.11.1.2 (Build 41) is required.

If you plan to scan from PVCS (Windows only), PVCS 6.8.0.0 is required.

If you plan to scan from ClearCase®, ClearCase 2003 is required.

Planning information

Planning documents: A careful reading of at least the following documents is worth the investment in time and effort before you complete your project plan for installing WebSphere Studio Asset Analyzer and inventorying your software assets:

- Configuration and Migration Guide (SC19-1152)
- Getting Started (SC19-1153)
- Program Directory (GI10-8757)
- Taking an Inventory (SC19-1157)
- Best Practices (SC19-1168)

Additionally, there is useful information in the searchable on-line help and IBM Education Assistant for WebSphere Studio Asset Analyzer. See the library page for pointers to this and the other documents referenced above at

http://www.ibm.com/software/awdtools/wsaa/library

License charge clarifications: When ordering WebSphere Studio Asset Analyzer by system sub-capacity, include the MSUs of any logical partitions (LPARs) where any of the pieces of WebSphere Studio Asset Analyzer will execute. This includes the following:

- WebSphere Studio Asset Analyzers scanners (including scanners for application source code, CICS configuration tables (CSD etc.), IMS subsystems, and DB2 catalog)
- The WebSphere Application Server containing the WebSphere Studio Asset Analyzers Web applications
- WebSphere Studio Asset Analyzers other z/OS programs and utilities

Some components of WebSphere Studio Asset Analyzer can be run on Windows or AIX systems. There is no additional license charge for WebSphere Studio Asset Analyzer components running on these operating systems. These components are licensed for use with WebSphere Studio Asset Analyzer only. For more information, see the license information included with WebSphere Studio Asset Analyzer or available at the following Web site

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

Packaging: The WebSphere Studio Asset Analyzer package is distributed with the following content:

- Basic machine-readable material on the customer-selected distribution medium
- Program Directory (GI10-8757)
- License Information (GC19-1154)
Charge metric: The products in this announcement have one charge unit — Value Units.

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

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<th>Program Name</th>
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</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>MSUs</th>
<th>Value Units/MSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>1</td>
</tr>
<tr>
<td>Tier A</td>
<td>4</td>
</tr>
<tr>
<td>Tier B</td>
<td>46</td>
</tr>
<tr>
<td>Tier C</td>
<td>176</td>
</tr>
<tr>
<td>Tier D</td>
<td>316</td>
</tr>
</tbody>
</table>

**Value Units for mainframes without MSU ratings:**

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Value Units/machine</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP3000 H30</td>
<td>6</td>
</tr>
<tr>
<td>MP3000 H50</td>
<td>8</td>
</tr>
<tr>
<td>MP3000 H70</td>
<td>12</td>
</tr>
<tr>
<td>ESL Model s</td>
<td>2</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>MSUs</th>
<th>Value Units/MSU</th>
<th>= Value Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>3</td>
<td>3.00</td>
</tr>
<tr>
<td>Tier A</td>
<td>42</td>
<td>18.90</td>
</tr>
<tr>
<td>Tier B</td>
<td>130</td>
<td>46.80</td>
</tr>
<tr>
<td>Tier C</td>
<td>140</td>
<td>37.80</td>
</tr>
<tr>
<td>Tier D</td>
<td>1,185</td>
<td>237.00</td>
</tr>
<tr>
<td>Total</td>
<td>1,500</td>
<td>343.50</td>
</tr>
</tbody>
</table>

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

Example: In the above ordering example, for the product running on a machine with 1,500 MSUs requiring 344 Value Units, order feature number G4FG, quantity 94, and feature number G4FH, quantity 1.

**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 U.S. 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 Web site at


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

**Translation from MSUs to Value Units example using VUE001**

<table>
<thead>
<tr>
<th>MSUs</th>
<th>Value Units/MSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-3</td>
<td>5.25</td>
</tr>
<tr>
<td>4-45</td>
<td>.83</td>
</tr>
<tr>
<td>46-175</td>
<td>.35</td>
</tr>
<tr>
<td>176-315</td>
<td>.26</td>
</tr>
<tr>
<td>316+</td>
<td>.20</td>
</tr>
</tbody>
</table>

**Note:** For the actual translation from MSUs to Value Units for this product, refer to the table that follows.

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

If the customer has installed 1,000 MSUs, the applicable Value Units would be:

**Translation from MSUs to Value Units (VUE001)**

<table>
<thead>
<tr>
<th>MSUs</th>
<th>Value Units/MSU</th>
<th>Value Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>5.25</td>
<td>15.75</td>
</tr>
<tr>
<td>42</td>
<td>.83</td>
<td>34.86</td>
</tr>
<tr>
<td>130</td>
<td>.35</td>
<td>45.50</td>
</tr>
<tr>
<td>140</td>
<td>.26</td>
<td>36.40</td>
</tr>
<tr>
<td>685</td>
<td>.20</td>
<td>137.00</td>
</tr>
</tbody>
</table>

Total 1,000 270

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

Example:

```
1 Value Unit A1AA
250 Value Units A1AB
```

Example: For a product running on machines with 1,000 MSUs requiring 270 Value Units, order feature number A1AA, quantity 20, and feature number A1AB, quantity 1.

**Note:** For actual feature numbers, see below.

Value Units for non-MSU based S/390® processors using VUE001:

```
MP3000 Model s
H30       = 21.00 Value Unit per machine
H50       = 22.00 Value Unit per machine
H70       = 26.00 Value Unit per machine
ESL Model s = 9.00 Value Unit per machine
```

**Basic license: On/Off Capacity on Demand**

WebSphere Studio Asset Analyzer V5 is eligible for On/Off Capacity on Demand (On/Off CoD) with a Temporary Use Charge calculated based on MSUs-per day usage.

**NOTE:** This table is for Japan Only

**For Japan Only**
Program Name: WebSphere Studio Asset Analyzer V5  
Program PID: 5655-R10

<table>
<thead>
<tr>
<th>Entitlement Identifier</th>
<th>Description</th>
<th>License Option / Pricing Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>S013S0V</td>
<td>WebSphere Studio Asset Analyzer V5</td>
<td>Basic OTC, Per MSU-day TUC</td>
</tr>
</tbody>
</table>

Program Name: WebSphere Studio Asset Analyzer V5  
Program PID: 5655-R10

<table>
<thead>
<tr>
<th>Feature Description</th>
<th>Feature Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSU-DAY Qty 1</td>
<td>J6CH</td>
</tr>
<tr>
<td>MSU-DAY Qty 250</td>
<td>J6CJ</td>
</tr>
</tbody>
</table>

Translation from MSUs to Value Units

<table>
<thead>
<tr>
<th>MSUs</th>
<th>Value Units/MSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>1-3</td>
</tr>
<tr>
<td>Tier A</td>
<td>4-45</td>
</tr>
<tr>
<td>Tier B</td>
<td>46-175</td>
</tr>
<tr>
<td>Tier C</td>
<td>176-315</td>
</tr>
<tr>
<td>Tier D</td>
<td>316+</td>
</tr>
</tbody>
</table>

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.

**NOTE: This table is for Japan Only**

**For Japan Only**

Program Name: WebSphere Studio Asset Analyzer V5  
Program PID: 5655-R10

<table>
<thead>
<tr>
<th>Entitlement Identifier</th>
<th>Description</th>
<th>License Option / Pricing Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>S013S0V</td>
<td>WebSphere Studio Asset Analyzer V5</td>
<td>Basic OTC, Per Value Unit</td>
</tr>
</tbody>
</table>

Orderable Supply ID: Language Distribution Medium

| S013SOW | English | 3480 Tape |
| S013S0X | Japanese | 3480 Tape |
| S013S0Z | Korean | 3480 Tape |

Subscription and Support PID: 5655-G49

<table>
<thead>
<tr>
<th>Entitlement Identifier</th>
<th>Description</th>
<th>License Option / Pricing Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>S00V941</td>
<td>WebSphere Studio Asset Analyzer V5</td>
<td>Basic ALC, Value Units SW S&amp;S (Basic MLC, Value Units SW S&amp;S (EMEA Only))</td>
</tr>
<tr>
<td></td>
<td>Subscription and Support</td>
<td>No Charge, Decline SW S&amp;S Per MSU SW S&amp;S Registration</td>
</tr>
</tbody>
</table>

Orderable Supply ID: Language Distribution Medium

| S00X4M2 | English | Hardcopy publication |
| S00XMP0 | Japanese | Hardcopy publication |
| S013TRT | Korean | Hardcopy publication |

Program Name: WebSphere Studio Asset Analyzer V5  
Program PID: 5655-R10

Feature Description: One-time charge feature number

---

IBM Asia Pacific Announcement AP07-0038

IBM is a registered trademark of International Business Machines Corporation
Subscription and Support PID 5655-G49

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Support for program number</th>
<th>S&amp;S Support for OTC chg</th>
<th>S&amp;S Decline no-charge feature number</th>
<th>S&amp;S Registration no-charge feature number</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebSphere Studio</td>
<td>G5KE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asset Analyzer V5</td>
<td>G5KC H3NC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>G5KD H3ND</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE: This table is for China Only

Subscription and Support PID 5655-G49

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Support for program number</th>
<th>S&amp;S Support for OTC chg</th>
<th>S&amp;S Decline no-charge feature number</th>
<th>S&amp;S Registration no-charge feature number</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebSphere Studio</td>
<td>G5KE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asset Analyzer V5</td>
<td>G5KH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>G5KJ</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- Includes and extends the support services provided in the base support to include technical support via telephone during normal business hours.
- Entitles customers to future releases and versions at no additional charge. Note that the customer is not entitled to new products.

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

**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 Customized Offerings (for example, CBPDO, ServerPac, and SystemPac®).

CBPDO and ServerPac are offered for electronic delivery, where ShopzSeries product ordering is available. For more details on electronic delivery, refer to the ShopzSeries help information at

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

Media type for this software product is chosen during the customized offerings ordering process. Based on your customer environment, it is recommended that the highest possible density tape media is selected. Currently offered media types are:

- CBPDOs: 3480, 3480 Compressed, 3490E, 3590, 3592
- ServerPacs: 3480, 3480 Compressed, 3490E, 3590, 3592
- SystemPacs: 3480, 3480 Compressed, 3490E, 3590, 3592

1 3592 is highest density media, which will ship the fewest number of media.

Once a product becomes generally available, it will be included in the next ServerPac and SystemPac monthly update.

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 three weeks after inclusion in ServerPac.
- SystemPac shipments will begin four weeks after inclusion in SystemPac due to additional customization, and data input verification.

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**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 (IPLA) including the License Information (LI) 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 maintenance and does not require customer signatures.

These programs are licensed under the IPLA and the associated Agreement for Acquisition of Software Maintenance, which provides for support with ongoing access to releases and versions of the program. IBM includes one year of Software Maintenance with the initial license acquisition of each Program acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option, if available. 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.

S/390 and System z IBM Operational Support Services — SoftwareXcel is an option if you desire added services.

**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. Consult the IBM Software Support Guide for further information at

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

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 (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. 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 IBM 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.

Authorization for Use on Home/Portable computer: You may not copy and use this Program on another computer without paying additional license fees.

Other terms

Volume orders (IVO): No

IBM International Passport Advantage Agreement:

Passport Advantage applies: No

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 newly announced 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 SoftwareXcel offering, visit

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

For additional information on the revised IBM Operational Support Services, refer to AA01-3066, dated July 10, 2001.

System i™ Software Maintenance applies: No

Variable charges apply: No

Educational allowance available:

15% to qualified educational institution customers.

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.

<table>
<thead>
<tr>
<th>Program number</th>
<th>Program name</th>
<th>Terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>5655-R10</td>
<td>WebSphere Studio</td>
<td>Execution-based</td>
</tr>
<tr>
<td></td>
<td>Asset Analyzer V5</td>
<td></td>
</tr>
</tbody>
</table>

**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 machine(s) where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, visit the Web site


**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 LPAR(s) 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 (and z/OS.e) on the machine(s) 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 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 machine(s) where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, refer to The System/370™, System/390®, and System z Machine Exhibit (Z125-3901), or visit the Mainframes section of the System z Exhibits Web site

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

For more information on sub-capacity System z IPLA terms and conditions, refer to AA04-3059, dated August 10, 2004.

**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 environment the System z IPLA program executes.

An environment is defined as either a single or standalone 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

1. That meets the criteria defined in AA98-3002, dated January 13, 1998
2. 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 (or z/OS.e) operating systems
- Any licenses for the OS/390 operating system must be discontinued
- All instances of the z/OS operating (or z/OS.e) 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 Web site 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 eServer 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 eServer zSeries 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

To be eligible for On/Off Capacity on Demand pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for Customer Initiated Upgrade and IBM eServer On/Off Capacity on Demand — Software (Z125-6611) must be signed prior to use.

Prices

Information on charges is available at http://www.ibm.com/support

Choose the option entitled Purchase/upgrade tools.

The pricing information for WebSphere Studio Asset Analyzer S&S (5655-G49) has not changed.

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

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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.

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Java is a trademark of Sun Microsystems, Inc.

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