IBM Tivoli Composite Application Manager for Transactions V6.2 helps monitor the availability and response time of business applications

At a glance

IBM Tivoli Composite Application Manager for Transactions V6.2:

- Helps monitor end-user response time with comprehensive response time coverage for both Web and Microsoft Windows applications using a variety of robotic and real-time analysis
- Records and plays back synthetic transactions
- Helps automate business practices
- Delivers end-to-end integration via Tivoli Enterprise Portal (TEP), a portal-based customizable user interface that can bring together the right set of data and generate reports in an easy-to-use interface
- Allows the user to follow transaction flows to help identify the cause of response time problems
- Provides application topology information to the IBM Tivoli Change and Configuration Management Database (CCMDB) to help manage application dependencies
- Integrates with other IBM Service Management and IBM Tivoli products to provide complete end-to-end management of your applications

For ordering, contact:

Your IBM representative or the Americas Call Centers at

800-IBM-CALL Reference: YE001

Overview

IBM Tivoli® Composite Application Manager for Transactions V6.2 (Composite Application Manager for Transactions V6.2) is designed to monitor, alert, and report on the availability and response time of business transactions. Key components include:

- Client response — real-user response time of Microsoft® Windows® applications at the client level that can be broken down into overall response time, server time, and network time, and is ideal for monitoring client applications such as Lotus Notes® and Microsoft Outlook.
- Web response — real-user response time of Web applications that can be broken down into browser (client) time, network time, server time, load time, and resolve time.
- Robotic response — monitoring simulated transactions allow organizations to be proactive in managing availability and performance of their applications to help identify bottlenecks before they impact customer satisfaction.
• Transaction tracking — end-to-end view of response times across systems to quickly help isolate the cause of response time and availability problems.

Integration with the IBM Tivoli Enterprise™ Portal (TEP) function of IBM Tivoli Monitoring V6.2 delivers easier navigation of response time views. In addition, integration with TEP provides more seamless integration with IBM Service Management and IBM Tivoli products for complete end-to-end management of your applications.

Key prerequisites

Refer to the Software requirements section.

Planned availability dates

• June 6, 2008 (electronic for distributed)
• June 20, 2008 (media for distributed)
• July 4, 2008 (media for z/OS®)

Description

Composite Application Manager for Transactions V6.2 for the distributed environment includes:

• IBM Tivoli Composite Application Manager for Response Time V6.2
• IBM Tivoli Composite Application Manager for Response Time Tracking V6.1
• IBM Tivoli Composite Application Manager for Internet Service Monitoring V6.0
• IBM Tivoli Monitoring V6.2

Composite Application Manager for Transactions for z/OS®, V6.2 for the z/OS environment includes orderable options for:

• IBM Tivoli Composite Application Manager for Response Time Enabler for z/OS® V6.2
• IBM Tivoli Composite Application Manager for Response Time Tracking for z/OS V6.1

Response time monitoring

Composite Application Manager for Transactions V6.2 provides both real-time and robotic response time analysis to help you quickly identify availability and performance issues before they impact your customers. A complete set of comprehensive tools are available to help gather response time and availability information. Both IBM Rational® Robot and IBM Rational Performance Tester capabilities are included for record and playback of simulated end-user transactions. Monitoring simulated transactions allows organizations to be proactive in managing availability and performance of their applications to help identify bottlenecks before they impact customer satisfaction.

In addition, Composite Application Manager for Transactions V6.2 provides the capability to help monitor:

• Real-user response time of Web applications that can be broken down into browser (client) time, network time, server time, load time, and resolve time.
• Real-user response time of Windows applications at the client level that can be broken down into overall response time, server time, and network time, and is ideal for monitoring client applications such as Lotus Notes or Microsoft Outlook
• Transactions from end to end to help isolate the source of problems

Monitoring the end-user response time of both Web and Windows applications can help IT operations quickly isolate the cause of the response time problems at the problem area, allowing for fast problem handoff and resolution with minimal impact on customer satisfaction.

Response time tracking covers Web servers, J2EE applications servers, DB2®, Siebel, Lawson ERP, CICS®, and IMS™. Composite Application Manager for Transactions V6.2 can help track
transaction flows from the J2EE environment to CICS and IMS. This capability can help quickly isolate the cause of a problem to the transaction processing systems on System z™.

**Internet service monitoring for the distributed environment**

Composite Application Manager for Transactions V6.2 includes a highly scalable suite of monitors, with unique executable rules and property files, that can be distributed to a number of points in the business infrastructure to help measure the availability, performance, and content of business services. It is designed to provide:

- Real-time user-side transaction monitoring by performing simulated transactions, acting like a customer or end user. It can proactively log into a Web address, perform FTP file transfers, and execute Dynamic Host Configuration Protocol (DHCP) lookups.
- Customized service level definition that gives you the capability to define what comprises a service level by grouping tests together. The status tests can be stored and based on response time, content matches, and many other values.
- Web-based SLA reporting and analysis whereby operators can compare and analyze the relative performance of multiple Internet services in one graphic report and measure them against SLAs.

Composite Application Manager for Transactions V6.2 delivers Internet service monitors that support many Internet protocols and Remote Function Calls (RFCs). These Internet service monitors can be used to help support rapid deployment of emerging technologies, including voice over IP, application hosting, e-commerce, and enterprise portals.

**Change and Configuration Management Database (CCMDB) support**

A discovery library adapter is provided so that Composite Application Manager for Transactions V6.2 can send data to IBM Tivoli CCMDB to help discover business processes and business activities. This information helps to improve the application dependency information stored in the CCMDB.

**Enhanced reporting through Tivoli Enterprise Portal (TEP)**

Composite Application Manager for Transactions V6.2 integrates with TEP through the bundling of IBM Tivoli Monitoring V6.2 infrastructure components. These components can enable Composite Application Manager for Transactions V6.2 to supply TEP with key business performance metrics for enhanced visualization and correlation within new workspaces and with other IBM Tivoli Monitoring V6.2 monitored systems. This integration delivers a single GUI through TEP, which is used by many IBM Tivoli monitoring and management products to help discover and investigate problems and take immediate corrective actions.

The end-to-end visualization capabilities, delivered by TEP, can help you manage your environment from a single tool, breaking down silos and avoiding the additional complexity of learning, integrating, and communicating issues across multiple management tools. TEP delivers powerful visualization and customizable views of all IT operation's performance metrics from across the data center, including:

- End-to-end monitoring of your infrastructure
- Clear, actionable information for increased confidence in management effectiveness
- Simple and flexible alarming, automation, and workflows to help improve IT operations' effectiveness
- Historical data and aggregated warehouse reporting
- Expert advice to help IT operations quickly resolve issues without the need for experts
- Significantly reduced time-to-value and lower cost of ownership

**Note:** Licensees of Composite Application Manager for Transactions V6.2 will receive a limited use, no-charge license of IBM Tivoli Monitoring V6.2 bundled with Composite Application Manager for Transactions V6.2 for distributed environments. For host environments, if you have not separately purchased a license to IBM Tivoli Monitoring V6.2, you can obtain the TEP-based function by acquiring a no-charge, limited use license to IBM Tivoli Monitoring Services on z/OS, V6.2 (5698-A79). This limited use license is subject to usage restriction that is based on use of the various IBM Tivoli Monitoring V6.2 components, including without limitation, if you have obtained IBM Tivoli Monitoring V6.2 under a no-charge, limited use license.

You may not use:
• Any IBM Tivoli Monitoring V6.1 operating systems agents, any IBM Tivoli Monitoring V6.2 monitoring agents, or the IBM Tivoli Monitoring Universal Agent unless you have purchased an appropriate IBM Tivoli Monitoring V6.2 program license.

• The DE functionality of IBM Tivoli Monitoring V6.2 and IBM Tivoli Monitoring Services on z/OS, V6.2 in a z/OS environment unless you have purchased the appropriate IBM program license (such as IBM Tivoli OMEGAMON® DE on z/OS).

Refer to the IBM Tivoli Monitoring License Information document for terms applicable to these programs.

Tivoli Enterprise Console® (TEC) event information

The information provided in the TEC events generated by Composite Application Manager for Transactions V6.2 includes a rich set of metrics. The events can provide:

• Name of the business process
• System that is causing the response time problem
• Application name
• Transaction name and description

This root cause information helps simplify the job of the operator in assigning trouble tickets to the correct subject matter expert. This can greatly reduce the time it takes to fix a problem by quickly getting the right person involved to fix the problem. Instead of spending time determining which system is the cause of a problem, the rich TEC event can help identify the problem system and significantly reduce the time spent in the problem determination phase.

Data collectors for the host z/OS environment

Composite Application Manager for Transactions V6.2 for the z/OS environment includes the J2EE monitoring agent for WebSphere® on IBM System z and the CICS and IMS data collectors. The Composite Application Manager for Transactions V6.2 CICS and IMS data collectors are compatible with the IBM Tivoli Composite Application Manager for CICS Transactions V6.0 and IBM Tivoli Composite Application Manager for IMS Transactions V6.0 data collectors, which provide a deeper level of transaction analysis when used with IBM Tivoli Composite Application Manager for WebSphere V6.0.

For more information, refer to Software Announcement 205-241, dated September 27, 2005.

Integration with other IBM Tivoli solutions

Beyond resource and diagnostics, the response time information, generated by Composite Application Manager for Transactions V6.2, can be used by a number of other IBM Tivoli products to enhance overall service management.

The response time availability information is a key data feed for IBM Tivoli Service Level Advisor. All of the response time and availability information is stored in the Tivoli Data Warehouse where it can be leveraged to help validate service levels and spot trends that could lead to a service level breach. The real-time availability reports from Composite Application Manager for Transactions V6.2 can be used to help quickly spot trends.

Through IBM Tivoli Business Service Manager, response time problems can be viewed in the overall business systems context, which can be used to help prioritize problems and ensure that the most critical problems are being addressed first, thus maximizing service to the most important customers.

IBM Tivoli Provisioning Manager can use response time information to take provisioning actions to help prevent service level agreement breaches. For example, if the end-user response time is greater than eight seconds while being monitored, Composite Application Manager for Transactions V6.2 can have IBM Provisioning Manager requisition another application server to help with the load.

Entitlement information

Composite Application Manager for Transactions V6.2 replaces three products. Licensees of the replaced products are entitled to Composite Application Manager for Transactions V6.2 as shown in the following table. You can move your use entitlements based on the current subscription and support pricing of the replacement offering. You must be current on maintenance to be eligible for moving your use entitlements. If you are not current on maintenance, you will have to pay a get-current or maintenance reinstatement fee.
The use entitlement move is for the same capacity as currently licensed when moving to the replacement offering. You are entitled to use the software on the same systems that you are currently managing (for example, the MSU quantities will be adjusted where required).

For information on move of use entitlements, contact your IBM representative.

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<th>Existing entitlement</th>
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<td>5724-L99</td>
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<td>5724-Q22</td>
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Accessibility by people with disabilities

A U.S. 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

Value Unit-based pricing for System z host products

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 Web site

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.

Product positioning

Composite Application Manager for Transactions V6.2 is part of the IBM Tivoli family for application management that includes IBM Tivoli Monitoring and IBM Tivoli OMEGAMON offerings. Working together, these offerings help provide a comprehensive, integrated, end-to-end view of your applications via the TEP.

IBM Tivoli Composite Application Manager offerings help:

• Increase the performance and availability of business-critical applications, including portal and service oriented architecture (SOA)-based technologies
• Reduce IT lifecycle operations, support, and development costs through proactive, real-time, and automated problem resolution, providing an end-to-end view of services, transactions, and associated resources across platforms and subsystems

Information from Composite Application Manager for Transactions V6.2 on performance, availability, and problem identification can be used with several other IBM Tivoli products to help deliver even greater value.

• IBM Tivoli Performance Analyzer can use response time information to help identify trends.
• IBM Tivoli Business Service Manager can leverage response time information to help identify the impact to overall business services.
• IBM Tivoli Provisioning Manager can use response time information to take provisioning actions to help prevent service level agreement (SLA) breaches.

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).

BP Attachment for Announcement Letter 208-090


Trademarks

Tivoli Enterprise, IMS, and System z are trademarks of International Business Machines Corporation in the United States or other countries or both.

Tivoli, Lotus Notes, z/OS, Rational, DB2, CICS, OMEGAMON, Tivoli Enterprise Console, and WebSphere are registered trademarks of International Business Machines Corporation in the United States or other countries or both.
Education support

Comprehensive education for IBM Tivoli® products is offered through Worldwide Tivoli Education Delivery Services. A wide range of training options are available, including classes led by instructors, learning on demand, on-site training, and blended learning solutions.

For additional information, visit


Offering Information

Product information is available via the Offering Information Web site

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

Publications

The following hardcopy publication is shipped with the basic machine-readable material for the distributed and z/OS® products.

<table>
<thead>
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<th>Publication title</th>
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<tr>
<td>IBM Tivoli Composite Application Manager for Transactions V6.2 Quick Start Guide</td>
<td>G11-8899</td>
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For Composite Application Manager for Transactions for z/OS, V6.2, the following hardcopy publications are shipped with the basic machine-readable material:

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<td>IBM Tivoli Composite Application Manager for Transactions -- Response Time Tracking Program Directory</td>
<td>G11-8148</td>
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<td>IBM Tivoli Composite Application Manager for Transactions -- CICS® Transactions Program Directory</td>
<td>G11-8149</td>
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<td>IBM Tivoli Composite Application Manager for Transactions -- IMS® Transactions Program Directory</td>
<td>G11-8150</td>
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<td>IBM Tivoli Composite Application Manager for Transactions -- Response Time Enabler Program Directory</td>
<td>G11-8151</td>
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The following softcopy publications are available in English on a Quick Start CD-ROM in displayable softcopy form on the planned availability date. Translated copies will be available in selected languages within 60 days of the planned availability date.

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<td>IBM Tivoli Composite Application Manager for Transactions V6.2 Offering Guide</td>
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The softcopy publications in the preceding table can be downloaded from the following Web site


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<tr>
<td>IBM Tivoli Composite Application Manager for Response Time Tracking V6.1 Warehouse Enablement Pack Guide</td>
<td>SC32-1911</td>
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<tr>
<td>IBM Tivoli Composite Application Manager for Response Time: Client Response Time TEMA User Guide</td>
<td>SC23-6332</td>
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<tr>
<td>IBM Tivoli Composite Application Manager for Response Time: Dashboard TEMA User Guide</td>
<td>SC23-6335</td>
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<td>IBM Tivoli Composite Application Manager for Response Time: Problem Determination Guide</td>
<td>GI11-8061</td>
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<td>IBM Tivoli Composite Application Manager for Response Time: Quick Start Guide</td>
<td>GC23-6367</td>
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<td>IBM Tivoli Composite Application Manager for Response Time: Robotic TEMA User Guide</td>
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<td>IBM Tivoli Composite Application Manager for Response Time Tracking V6.1 Installation and Configuration Guide</td>
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<td>IBM Tivoli Composite Application Manager for Response Time Tracking V6.1: Installing a Management Server in a WebSphere(R) Cluster Environment</td>
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<td>IBM Tivoli Composite Application Manager for CICS Transactions V6.0 Product Guide</td>
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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 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: Composite Application Manager for Transactions V6.2 runs on hardware capable of supporting the software listed in the Software requirements section.

In addition, the following hardware requirements apply to the bundled IBM Tivoli Composite Application Manager for Internet Service Monitoring V6.0 program.

Minimum hardware requirements for running on the AIX® platform

- IBM PowerPC® processor
- 64 MB RAM or greater recommended
- 35 MB disk space
- 50 MB swap space recommended
- Ethernet 10/100 network interface card capable of supporting promiscuous packet reception

Minimum hardware requirements for running on the HP-UX platform

- PA-RISC 1.1 or PA-RISC 2.0 processor
- 64 MB RAM or greater recommended
- 50 MB swap space recommended
- Ethernet 10/100 network interface card capable of supporting promiscuous packet reception

Minimum hardware requirements for running on the Solaris platform

- UltraSPARC IIi 400 MHz processor
- 128 MB RAM or greater recommended
- 25 MB disk space
- 50 MB swap space recommended
- Ethernet 10/100 network interface card capable of supporting promiscuous packet reception

Minimum hardware requirements for running on the Red Hat Linux™ platform

- Intel® Pentium® II processor 400 MHz, or greater
- 128 MB RAM or greater recommended
- 30 MB disk space
- 50 MB swap space recommended
- Ethernet 10/100 or token ring network interface card capable of supporting promiscuous packet reception

Minimum hardware requirements for running on the SUSE Linux Enterprise Server (SLES) platform

- Intel Pentium II processor 400 MHz, or greater
- 128 MB RAM or greater recommended
• 30 MB disk space
• 50 MB swap space recommended
• Ethernet 10/100 or token ring network interface card capable of supporting promiscuous packet reception

Software requirements: For the bundled IBM Tivoli Composite Application Manager for Internet Service Monitoring V6.0 program

• AIX V5.2 or V5.3 running on PowerPC platforms
• HP-UX 11i running on PA-RISC platforms
• Windows® 2000 Server with service pack (SP) 1, or later
• Windows 2000 Advanced Server with SP 1, or later
• Windows 2003 Server
• Windows 2003 Advanced Server
• Red Hat Enterprise Linux (RHEL) AS/ES 3.0 or 4.0 running on x86 platforms
• Sun Solaris 8, 9, or 10 running on SPARC platforms

One of the following Web browsers is required:
• Microsoft® Internet Explorer V5.5, or later
• Mozilla Firefox V1.0, or later

For the bundled IBM Tivoli Composite Application Manager for Response Time V6.2 program

Requirements for the management server

Prerequisites:
• IBM Tivoli Monitoring V6.1 (with Fix Pack (FP) 5), or later
• IBM DB2® V8.2, or later, Enterprise Server Edition (ESE)

IBM Tivoli Composite Application Manager for Response Time V6.2 includes IBM Tivoli Monitoring V6.1 (with FP 5), or later, and IBM DB2 V8.2, or later, ESE components. If you do not have IBM Tivoli Monitoring V6.1 (with FP 5), or later, and IBM DB2 V8.2, or later, installed, you can use the media that is shipped with IBM Tivoli Composite Application Manager for Response Time V6.2 to install IBM Tivoli Monitoring V6.1 (with FP 5), or later, and IBM DB2 V8.2, or later, ESE components, subject to the terms of the License Information document.

For information on IBM Tivoli Monitoring V6.1 (including FP 5), or later, visit


Requirements for the client response time management agent (refer to Note 1)

• Windows 2000 Professional with SP 4
• Windows 2000 Server with SP 4
• Windows 2000 Advanced with SP 4
• Windows 2000 Server Standard Edition (SE) or Enterprise Edition (EE)
• Windows 2003 Server SE or EE (including 64-bit support on AMD64 and EM64T)
• Windows XP Professional with SP 2
• IBM AIX V5.3 or V5.3L
• Solaris 9 or 10
• HP-UX 11i V2 (PA-RISC)
• Linux on System x™
  – RHEL 4.0 (including 64-bit support on AMD64 and EM64T)
  – SLES 9 or 10 (including 64-bit support on AMD64 and EM64T)
  – Red Flag Advanced Server (RFAS) 4.1 or 5.0

Requirements for the robotic response time management agent (refer to Note 1)
• Windows 2000 Professional with SP 4
• Windows 2000 Server with SP 4
• Windows 2000 Advanced with SP 4
• Windows 2000 Server SE or EE
• Windows 2003 Server SE or EE (including 64-bit support on AMD64 and EM64T)
• Windows XP Professional with SP 2
• IBM AIX V5.3 or V5.3L
• Solaris 9 or 10
• HP-UX 11i V2 (PA-RISC)
• Linux on System x
  – RHEL 4.0 (including 64-bit support on AMD64 and EM64T)
  – SLES 9 or 10 (including 64-bit support on AMD64 and EM64T)
  – RFAS 4.1 or 5.0

Requirements for the Web response time management agent (refer to Note 1)
• Windows 2000 Professional with SP 4
• Windows 2000 Server with SP 4
• Windows 2000 Advanced with SP 4
• Windows 2000 Server SE or EE
• Windows 2003 Server SE or EE (including 64-bit support on AMD64 and EM64T)
• Windows XP Professional with SP 2
• IBM AIX V5.3 or V5.3L
• Solaris 9 or 10
• HP-UX 11i V2 (PA-RISC)
• Linux on System x
  – RHEL 4.0 (including 64-bit support on AMD64 and EM64T)
  – SLES 9 or 10 (including 64-bit support on AMD64 and EM64T)
  – RFAS 4.1 or 5.0

Requirements for the end-user response time dashboard agent (refer to Note 1)
• Windows 2000 Server with SP 4
• Windows 2000 Advanced with SP 4
• Windows 2000 Server SE or EE
• Windows 2003 Server SE or EE (including 64-bit support on AMD64 and EM64T)
• Windows XP Professional with SP 2
• IBM AIX V5.3 or V5.3L
• Solaris 9 or 10
• HP-UX 11i V2 (PA-RISC)
• Linux on System x
  – RHEL 4.0 (including 64-bit support on AMD64 and EM64T)
  – SLES 9 or 10 (including 64-bit support on AMD64 and EM64T)
  – RFAS 4.1 or 5.0

To collect HTTP and HTTPS performance data from Web servers using the Web response time management agent

• IBM AIX V5.3 or V5.3L
  – IBM HTTP Server V6.0, or later, V2.0.47, or later, or V1.3, or later
  – Apache Web Server V2.0.47, or later, or V2.2.0 (HTTP only)
• Solaris 9 or 10
  – IBM HTTP Server V6.0, or later, V2.0.47, or later, or V1.3, or later
  – Sun iPlanet Web Server V6.0, or later, or V6.1, or later
  – Apache Web Server V2.0.47, or later, or V2.2.0 (HTTP only)
• HP-UX 11i V2 (PA-RISC)
  – IBM HTTP Server V6.0, or later, V2.0.47, or later, or V1.3, or later
  – Sun iPlanet Web Server V6.0, or later, or V6.1, or later (HTTP only)
  – Apache Web Server V2.0.47, or later, or V2.2.0 (HTTP only)
• Microsoft Windows
  – IBM HTTP Server V6.0, or later, V2.0.47, or later, or V1.3, or later
  – Microsoft IIS 6.0, or later
  – Sun iPlanet Web Server V6.0, or later, or V6.1, or later
  – Apache Web Server V2.0.47, or later, or V2.2.0 (HTTP only)
• Linux on System x
  – IBM HTTP Server V6.0, or later, V2.0.47, or later, or V1.3, or later
  – Apache Web Server V2.0.47, or later, or V2.2.0 (HTTP only)

To collect performance data from Windows client applications, you need:

• SAP GUI R/3 V6.2 or V6.4
• Lotus Notes® V6, or later, or V7, or later
• IBM Personal Communications V5.x
• Hummingbird® Exceed V11
• Attachmate Extra V8 TN3270 Emulators
• Microsoft Outlook 2000 or 2003
• Customer defined application using ETEWatch® Customizer

For robotic playback of the following record and playback tools, you need:

• IBM Rational® Performance Tester V7.0, or later
• IBM Rational Robot Service Release (SR) 5 or SR 6
• Mercury LoadRunner V8
• Command line programs

For configuration and to view collected data, you need:
To collect Application Response Measurement (ARM)-based performance data from DB2, you need:

- DB2 V8.2
- DB2 Universal Java™ Database Connectivity (JDBC) driver with connection pooling and IBM WebSphere Application Server V5.1.1, or later (not supported on System z™ or System i™)

To collect ARM-based performance data from Web servers, you need:

- The plug-ins provided in IBM WebSphere Application Server V5.1.1, or later
- One of the supported servers:
  - Apache Server
  - IBM HTTP Server
  - Internet Information Server
  - Lotus® Domino® Enterprise Server
  - Sun Java System Web Server
  - Covalent Enterprise Ready Server

Key corequisites

- IBM Tivoli Enterprise™ Console
- IBM Tivoli Business Systems Manager
- IBM Tivoli Service Level Advisor
- IBM Tivoli Monitoring
- IBM Tivoli Availability Process Manager
- Tivoli Data Warehouse
- IBM Rational Robot
- IBM Rational Performance Tester

Note 1: Agents support running on a 64-bit system in 32-bit compliant mode. None of the agents run as native 64-bit applications.

For the bundled IBM Tivoli Composite Application Manager for Response Time Tracking V6.1 program

J2EE environments managed

- IBM WebSphere Application Server V5.1, or later
  WebSphere 64-bit support is available for Windows and Linux operating system platforms and patch levels that WebSphere supports for 64-bit operation.
- BEA WebLogic Server V7.0 with SP 5 and V8.1, running on Sun or IBM Java virtual machine (JVM)
- JBoss Application Server (AS) 3.2.x and 4.0.x running on Sun, IBM, or HP-UX JVM
- Tomcat 4.1.x, 5.0.x, or 5.5.x running on Sun, IBM, or HP-UX JVM

Requirements for the management server

IBM Tivoli Composite Application Manager for Response Time Tracking V6.1 includes IBM WebSphere Application Server Network Deployment V6.0 and IBM DB2 V8.2 Enterprise Server Edition (ESE) components. If you do not have IBM WebSphere Application Server Network Deployment V6.0 or IBM DB2 V8.2 ESE installed, you can use the media that is shipped with IBM Tivoli Composite Application Manager for Response Time Tracking V6.1 to install IBM WebSphere Application Server Network Deployment V6.0 and IBM DB2 V8.2 ESE components,
subject to the terms of the License Information document governing these components.

- Microsoft Windows 2000 Server with SP 4
- Windows 2000 Advanced with SP 4
- IBM AIX V5.2 or V5.3
- Solaris 9 or 10
- HP-UX 11i V1
- Oracle 9i SE Release 2 (9.2) and 10g SE Release 2 (10.2)
- DB2 V8.1 ESE with fix pack 6a+ (needed for WebSphere Application Server
- DB2 V8.2
- WebSphere Application Server V5.1.x, or later (for standard single server installs WebSphere Application Server Base Edition and WebSphere Business Integration)
- WebSphere Application Server V6.0.1.x, or later (for standard single server installs WebSphere Application Server Base Edition and WebSphere Business Integration)
- WebSphere Application Server Network Deployment V5.1.x, or later (for WebSphere Application Server Network Deployment cluster installs)
- WebSphere Application Server Network Deployment V6.0.1.x, or later (for WebSphere Application Server Network Deployment cluster installs)
- Linux on System x:
  - RHEL 3.0 or 4.0
  - SLES 8 or 9
  - RFAS 4.0 or 4.1
- Linux on System z:
  - RHEL 3.0 or 4.0
  - SLES 8 or 9
- Linux on System i:
  - RHEL 3.0 or 4.0
  - SLES 8 or 9
- Linux on System p™:
  - RHEL 3.0 or 4.0
  - SLES 8 or 9

Requirements for the management agent

- Windows 2000 Professional with SP 4
- Windows 2000 Server with SP 4
- Windows 2000 Advanced with SP 4
- Windows 2000 Server SE or EE
- Windows 2003 Server SE or EE (also 64-bit support on AMD64 and EM64T)
- Windows XP Professional with SP 1
- AIX V5.2 or V5.3
- Solaris 9 or 10
- HP-UX 11i
- Linux on System x:
  - RHEL 3.0 or 4.0 (also 64-bit support on AMD64 and EM64T)
- SLES 8 or 9 (also 64-bit support on AMD64 and EM64T)
- RFAS 4.0 or 4.1

- Linux on System z:
  - RHEL 3.0 or 4.0
  - SLES 8 or 9

- Linux on System i:
  - SLES 8 or 9 4.0

- Linux on System p:
  - RHEL 3.0 or 4.0 (also support 64-bit Linux on System p)
  - SLES 8 or 9 (also support 64-bit Linux on System p)

- z/OS V1.5, V1.6, or V1.7
- OS/400® V5.2 or V5.3

**For configuration and to view collected data**

- Microsoft Internet Explorer 6 with SP 1 on Microsoft Windows

**To collect ARM-based performance data from DB2**

- DB2 V8.2
- DB2 Universal JDBC driver with connection pooling and IBM WebSphere Application Server V5.1.1, or later (not supported on IBM System z or System i)

**To collect ARM-based performance data from Web servers**

- Requires the plug-ins provided in WebSphere V5.1.1, or later
- Supported servers include:
  - Apache Server
  - IBM HTTP Server
  - Internet Information Server
  - Lotus Domino Enterprise Server
  - Sun Java System Web Server
  - Covalent Enterprise Ready Server

For release levels of IBM WebSphere Application Server V5.1, refer to Software Announcement 203-319, dated November 25, 2003.

**To collect ARM-based performance data from CICS**

CICS V2.2, V2.3, or V3.1

**To collect ARM-based performance data from IMS**

IMS V7.1, V8.1, or V9.1

**Key corequisites**

- IBM Tivoli Enterprise Console®
- IBM Tivoli Business Systems Manager
- IBM Tivoli Service Level Advisor
- IBM Tivoli Composite Application Manager for WebSphere
- IBM Tivoli Monitoring
- IBM Tivoli Availability Process Manager
• Tivoli Data Warehouse

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

Planning information

Direct customer support: For the z/OS 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: Composite Application Manager for Transactions V6.2 for the distributed environment is distributed with:

• International Program License Agreement (Z125-3301)
• License Information document (electronic)
• CD-ROM
• Publications (refer to the Publications section)

Composite Application Manager for Transactions for z/OS, V6.2 for the z/OS environment is distributed with:

• International Program License Agreement (Z125-3301)
• License Information document (GI11-8147)
• 3480 tape cartridge
• Publications (refer to the Publications section)

This program, when downloaded from a Web site, 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

Composite Application Manager for Transactions V6.2 uses the security and auditability features of the 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/
IBM Tivoli Enhanced Value-Based Pricing

IBM Tivoli software products are priced using IBM Tivoli’s Enhanced Value-Based Pricing. The Enhanced Value-Based Pricing system is based upon the IBM Tivoli Environment-Managed Licensing Model, which uses a managed-environment approach — whereby price is determined by what is managed rather than the number and type of product components installed.

For example, all servers monitored with IBM Tivoli’s monitoring product (IBM Tivoli Monitoring) require entitlements sufficient for those servers. Other Tivoli products may manage clients, client devices, agents, network nodes, users, or other items, and are licensed and priced accordingly.

Unlike typical systems management licensing models that require entitlements of specific software components to specific systems, the IBM Tivoli Environment-Managed Licensing Model provides the customer flexibility to deploy its IBM Tivoli software products within its environment in a manner that can address and respond to the customer’s evolving architecture. That is, as the architecture of a customer’s environment changes, the customer’s implementation of IBM Tivoli software can be altered, as needed, without affecting the customer’s license requirements (as long as the customer does not exceed its entitlements to the software).

Under Enhanced Value-Based Pricing, licensing and pricing of server-oriented applications are determined based upon the server’s use in the customer’s environment. Typically, such applications are licensed and priced in a manner that corresponds to each installed and activated processor of the server managed by the IBM Tivoli application to help correlate price to value while offering a simple solution.

Where a server is physically partitioned, this approach is modified. This partitioning technique is the approach used with systems that have either multiple cards or multiple frames, each of which can be configured independently. For servers capable of physical partitioning (for example, IBM System p Scalable POWERParallel Systems® servers, Sun Ultra servers, and HP Superdome servers), an entitlement is required for each processor in the physical partition being managed by the Tivoli application. For example, assume that a server has 24 processors installed in aggregate. If this server is not partitioned, entitlements are required for all 24 processors. If, however, it is physically partitioned into three partitions, each containing eight processors, and Tivoli products were managing only one of the three partitions, then entitlements would be required for the eight processors on the physical partition managed by the IBM Tivoli application.

For servers with virtual or logical partitions, entitlements are required for all installed and activated processors on the server. For each IBM Tivoli application managing a clustered environment, licensing is based on the cumulative number of installed and activated processors on each server in the cluster. Where the cluster includes physically partitioned servers, the considerations described above concerning physically partitioned servers apply as well.

Enhanced Value-Based Pricing recognizes the convergence of RISC and UNIX®, and Microsoft Windows and Intel technologies, in order to simplify your licensing requirements, and to provide a smoother, more scalable model. Pricing and licensing does not differentiate between non-System z server platforms or operating systems. For some products, this platform neutrality extends to System z and other host servers as well.

IBM Tivoli Enhanced Value-Based Pricing terminology definitions

Client device or client

A client device is a computing device that requests the execution of a set of commands, procedures, or applications from another computer system that is typically referred to as a server. Multiple client devices may share access to a common server. A client device generally has some processing capability or is programmable to allow a user to do work. Examples include, but are not limited to, notebook computers, desktop computers, desk side computers, technical workstations, appliances, automated teller machines, point-of-sales terminals, tills and cash registers, and kiosks.

Enterprise

An enterprise is a person or single entity and those subsidiaries with more than 50 percent ownership.

IBM Integrated Facility for Linux (IFL)

This optional facility enables additional processing capacity exclusively for Linux workload, with no effect on the model designation of a System z or S/390® server. Consequently, executing Linux workload on the IFL will not, in most cases, result in any increased IBM software charges for z/OS, OS/390®, VM, VSE, or TPF operating systems and applications. There is, as indicated, a charge associated with the IFL, and there may also be a charge for applications that run on the
The IFL may be dedicated to a single Linux-mode logical partition or it may be shared by multiple Linux-mode logical partitions. Installations should note that the Linux workspace enabled by this facility will not support any of the traditional S/390 operating systems (OS/390, TPF, VSE, or VM). Only Linux applications or Linux operating in conjunction with the Virtual Image Facility™, an environment that operates within a logical partition or in native S/390 mode and provides the capability to create multiple Linux images, are supported by IBM S/390 IFL.

Managed processor (charging under full capacity in the managed environment)

Charges are based on the active processors on the machines in the computing environment affiliated with the program rather than on the server where the program is run. The managed processors, which require proof of entitlement (PoEs), are defined in the License Information's program-unique terms.

Notes

1. IBM defines a physical processor in a computer as a functional unit that interprets and executes instructions. A physical processor consists of at least an instruction control unit and one or more arithmetic and logic units.

2. Multicore technology allows two or more processors (commonly called cores) to be active on a single silicon chip. With multicore technology, IBM considers each core to be a physical processor. For example, in a dual-core chip, there are two physical processors residing on the single silicon chip.

3. The program may not run on some or all of the processors for which PoEs are required by the program's valuation method.

4. In the System z IFL environment, each IFL engine is considered a single physical processor.

5. Threading, a technique that makes a single processor seem to perform as two or more, does not affect the count of physical processors.

6. Where blade technology is employed, each blade is considered a separate server and charging is based upon the total number of processors on the blades with which the program is affiliated.

7. Not all processors require the same number of Value Unit entitlements. To determine the number of Value Unit entitlements required, refer to the processor Value Unit conversion table on the Passport Advantage® Web Site:

Millions of Service Units (MSUs)

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

For more detailed information about System z software pricing, go to


Partitions

A server's resources (CPU, memory, I/O, interconnects, and buses) may be divided according to the needs of the applications running on the server. This partitioning can be implemented with physical boundaries (physical partitions) or logical boundaries (logical partitions).

Physical partitions are defined by a collection of processors dedicated to a workload and can be used with systems that have either multiple cards or multiple frames, each of which can be configured independently. In this method, the partitions are divided along hardware boundaries and processors, and the I/O boards, memory, and interconnects are not shared.

Logical partitions are defined by software rather than hardware and allocate a pool of processing resources to a collection of workloads. These partitions, while separated by software boundaries, share hardware components and run in one or more physical partitions.

Processor (per processor charging under full capacity)

In full capacity charging, PoE must be acquired for all activated processors (available for use) that are on the server where the program or a component of the program is run.
Notes

1. IBM defines a physical processor in a computer as a functional unit that interprets and executes instructions. A physical processor consists of at least an instruction control unit and one or more arithmetic and logic units.

2. Multicore technology allows two or more processors (commonly called cores) to be active on a single silicon chip. With multicore technology, IBM considers each core to be a physical processor. For example, in a dual-core chip, there are two physical processors residing on the single silicon chip.

3. In the System z IFL environment, each IFL engine is considered a single physical processor.

4. Threading, a technique that makes a single processor seem to perform as two or more, does not affect the count of physical processors.

5. Where blade technology is employed, each blade is considered a separate server and charging is based upon the total number of processors on the blade on which the program is run.

6. When a server is shipped with six processors, but two of them are inactive, four processors are active for the customer.

7. Not all processors require the same number of Value Unit entitlements. To determine the number of Value Unit entitlements required, refer to the processor value unit conversion table on the Passport Advantage Web Site.

Server

A server is a computer system that executes requested procedures, commands, or applications to one or more user or client devices over a network. A PoE must be obtained for each server on which the program or a component of the program is run or for each server managed by the program. Where blade technology is employed, each blade is considered a separate server.

Standby or backup systems

For programs running or resident on backup machines, IBM defines three types of situations: cold, warm and hot. In cold and warm situations, a separate entitlement for the copy on the backup machine is normally not required and typically no additional charge applies. In a hot backup situation, the customer needs to acquire other license or entitlements sufficient for that server. All programs running in backup mode must be solely under the customer's control, even if running at another enterprise's location.

As a practice, the following are definitions and allowable actions concerning the copy of the program used for backup purposes:

**Cold:** A copy of the program may reside, for backup purposes, on a machine as long as the program is not started. There is no additional charge for this copy.

**Warm:** A copy of the program may reside for backup purposes on a machine and is started, but is idling, and is not doing any work of any kind. There is no additional charge for this copy.

**Hot:** A copy of the program may reside for backup purposes on a machine, is started, and is doing work. The customer must acquire a license or entitlements for this copy and there will generally be an additional charge.

Doing work includes, for example, production, development, program maintenance, and testing. It also could include other activities such as mirroring of transactions, updating of files, synchronization of programs, data or other resources (for example, active linking with another machine, program, database or other resource, and so on), or any activity or configurations that would allow an active hot switch or other synchronized switch over between programs, databases, or other resources to occur.

In the case of a program or system configuration that is designed to support a high availability environment by using various techniques (for example, duplexing, mirroring of files, or transactions, maintaining a heartbeat, active linking with another machine, program, database, or other resource), the program is considered to be doing work in the hot situation and a license or entitlement must be purchased.

Value Units

A Value Unit is a pricing charge metric for program license entitlements that is based upon the quantity of a specific designated measurement used for a given program. Each program has a designated measurement. The most commonly used designated measurements are processor cores and MSUs. However, for select programs, there are other designated measurements such as...
as servers, users, client devices, and messages. The number of Value Unit entitlements required for your specific implementation of the given program must be obtained from a conversion table associated with the program. You must obtain a PoE for the appropriate number of Value Unit entitlements for your implementation. The Value Unit entitlements of a given program cannot be exchanged, interchanged, or aggregated with Value Unit entitlements of another program. Whenever the designated measurement is a processor core, not all processors require the same number of Value Unit entitlements. To determine the number of Value Unit entitlements required, refer to the processor value unit conversion table on the Passport Advantage Web Site.

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

Product and licensing Web Sites

A complete list of IBM Tivoli products is available at

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

IBM Tivoli product licensing documents are available at


Passport Advantage for the distributed product

Through the Passport Advantage Agreement, you may receive discounted pricing based on their total volume of eligible products, across all IBM brands, acquired worldwide. The volume is measured by determining the total Passport Advantage points value of the applicable acquisitions. Passport Advantage points are only used for calculating the Entitled Passport Advantage discount.

To determine the required IBM Tivoli product configuration under Passport Advantage, the IBM Tivoli Enhanced Value-Based Pricing Model applies. The customer's environment is evaluated on a per-product basis.

Use the following two-step process to determine the total Passport Advantage points value:

1. Analyze your environment to determine the number of charge units for a product. The quantity of each product's part numbers to be ordered is determine by that analysis.

2. Order the Passport Advantage part numbers. A Passport Advantage point value, which is the same worldwide for a specific part number regardless of where the order is placed, is assigned to each IBM Tivoli product part number. The Passport Advantage point value for the applicable part number, multiplied by the quantity for that part number, will determine the Passport Advantage points for that IBM Tivoli product part number. The sum of these Passport Advantage points determines the Passport Advantage point value of the applicable IBM Tivoli product authorizations, which then may be aggregated with the point value of other applicable Passport Advantage product acquisitions to determine the total Passport Advantage points value.

The discounted pricing available through Passport Advantage is expressed in the form of Suggested Volume Prices (SVPs), which vary depending on the SVP level. Each SVP level is assigned a minimum total Passport Advantage point value, which must be achieved, in order to qualify for that SVP level.

Media packs and documentation packs do not carry Passport Advantage points and are not eligible for SVP discounting.

For additional information on Passport Advantage, refer to the following

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

The following Passport Advantage part number categories may be orderable:

- License and Software Maintenance 12 Months — This is the product authorization with Software Maintenance to the first anniversary date.
- Annual Software Maintenance Renewal — This is the Software Maintenance renewal for one anniversary that applies when a customer renews their existing coverage period prior to the anniversary date at which it expires.
- Software Maintenance Reinstatement 12 months — This is for customers who have allowed their Software Maintenance to expire, and later wish to reinstate their Software Maintenance.
Media packs — These are the physical media, such as CD-ROMs, that deliver the product’s code.

Documentation packs — These contain printed documentation such as the User’s Guide and Release Notes®.

Pricing examples
The following examples are provided to illustrate your licensing requirements.

References to processor-based licensing do not represent the actual number of entitlements required. Entitlement requirements are Value Unit-based, with the exception of IBM Tivoli Storage Manager. Processors referenced in these examples represent the designated measurement on which the required number of Value Unit entitlements will be calculated. The number of Value Units required per processor will depend on the processor type. For more information, refer to the Value Unit definition in IBM Tivoli Enhanced Value-Based Pricing terminology definitions. To determine the number of Value Unit entitlements required per processor, refer to the processor Value Unit conversion table on the Passport Advantage Web site

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

References to all other non-processor-based metrics do represent the actual number of entitlements required, unless other designated measurements are referenced or unless otherwise specified.

Pricing example for Composite Application Manager for Transactions V6.2 for the distributed platform
The customer’s overall core environment includes:

Distributed servers
Twenty uniprocessors
Sixty-five 2-way servers
Twelve 4-way servers
One 8-way server
One 12-way server with 2 virtual or logical partitions
One 14-way server
One 16-way Sun Ultra server with two 8-way physical partitions (only one of which is managed by Tivoli applications)
One 24-way server
One z800 server with two uniprocessor IFLs running Linux (also known as “Linux on System z”)

Note: Linux on System z offerings may not be available for all Tivoli products. This licensing example assumes such availability. Linux on System z offerings have distinctly orderable part numbers in Passport Advantage, and should be used when ordering entitlements for IFLs running Linux.

If pricing products without a Linux on System z offering, you should exclude the z800 server entitlement requirement indicated in the following tables.

Composite Application Manager for Transactions is based upon the IBM Tivoli Environment-Managed Licensing Model.

The number of licenses required depends upon the type of monitoring being done. Each type is described in the following sections.

Client response:
Count the number of clients on which the client response monitor will be run. For example, to monitor Lotus Notes on 100 Windows XP desktop systems requires 100 Client Device licences.

Web response:
The customer wants to manage the Web server environment, which requires Value Unit
entitlements associated with the following number of processors:

<table>
<thead>
<tr>
<th>Systems managed</th>
<th>Quantity in customer environment</th>
<th>Processors to be licensed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uniprocessor</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>2-way</td>
<td>65</td>
<td>130</td>
</tr>
<tr>
<td>4-way</td>
<td>12</td>
<td>48</td>
</tr>
<tr>
<td>8-way</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>12-way (2 logical partitions)</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>14-way</td>
<td>1</td>
<td>14</td>
</tr>
<tr>
<td>16-way (2 physical partitions, one of which is managed by Tivoli applications)</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>24-way</td>
<td>1</td>
<td>24</td>
</tr>
<tr>
<td>z800 server with two uniprocessor IFLs (requires Linux on System z availability)</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

Total processors to be licensed: 266

Robotic response:

Similar to Web response monitoring, but in the case of robotic response monitoring, the number of licenses is determined by where the robot is being run, sometimes called points of presence. It doesn't matter how many servers or devices make up the transaction. In this example, the customer wants to monitor transactions from several points of presence, which requires Value Unit entitlements associated with the following number of processors:

<table>
<thead>
<tr>
<th>Systems managed</th>
<th>Environment</th>
<th>Licensed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uniprocessor</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>2-way</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>4-way</td>
<td>2</td>
<td>8</td>
</tr>
</tbody>
</table>

Total processors to be licensed: 20

Transaction tracking:

Transaction tracking is licensed based on the environment through which the transaction is being tracked, which determines the number of required Value Units. In this example, the transactions run across the following environment:

<table>
<thead>
<tr>
<th>Systems managed</th>
<th>Quantity in customer environment</th>
<th>Processors to be licensed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uniprocessor</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>2-way</td>
<td>65</td>
<td>130</td>
</tr>
<tr>
<td>4-way</td>
<td>12</td>
<td>48</td>
</tr>
<tr>
<td>8-way</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>12-way (2 logical partitions)</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>14-way</td>
<td>1</td>
<td>14</td>
</tr>
<tr>
<td>16-way (2 physical partitions, one of which is managed by Tivoli applications)</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>24-way</td>
<td>1</td>
<td>24</td>
</tr>
<tr>
<td>z800 server with two uniprocessor IFLs (requires Linux on System z availability)</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

Total processors to be licensed: 266

Pricing example for Composite Application Manager for Transactions for z/OS, V6.2 — host z/OS platform
Composite Application Manager for Transactions for z/OS, V6.2 requires a single distributed processor entitlement for ARM to enable the management agent. In addition, the z/OS entitlements should follow the MSU to Value Unit scale.

System z server = one 1,500 MSU System z server

The product in this example employs Value Unit slope VUE007 (VUE = Value Unit Exhibit). The following scales are used to calculate the equivalent number of Value Units for a specified number of MSUs.

In the example, if the customer has installed 1,500 MSUs, the applicable number of Value Units will be:

<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 rounded up to the next integer. So the customer will need to license 344 Value Units in this example.

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

<table>
<thead>
<tr>
<th>System</th>
<th>Value Units / System</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>

Value Units for IBM 9672 processors are based upon the full capacity of these systems. This is applicable to all System z systems measured on MSU capacity. Information on MSU capacities can be found in the IBM System/370™, System/390® and zSeries Machine Exhibit, Z125-3901.

Ordering information

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

Product group: Tivoli

Product Identifier Description | PID
---|---
IBM Tivoli Composite Application Manager for Transactions V6.2 (for the distributed platform) | 5724-S79
IBM Tivoli Composite Application Manager for Transactions for z/OS, V6.2 | 5698-B25

Product category: Application Management

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

Program number | Program name | Value Unit exhibit
---|---|---
5698-B25 | IBM Tivoli Composite Application Manager for Transactions for z/OS, V6.2 | VUE007

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

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

**Value Unit exhibit VUE007**

<table>
<thead>
<tr>
<th>Tier</th>
<th>MSUs mini</th>
<th>MSUs maxi</th>
<th>Value Units/MSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>1</td>
<td>3</td>
<td>1.00</td>
</tr>
<tr>
<td>Tier A</td>
<td>4</td>
<td>45</td>
<td>0.45</td>
</tr>
<tr>
<td>Tier B</td>
<td>46</td>
<td>175</td>
<td>0.36</td>
</tr>
<tr>
<td>Tier C</td>
<td>176</td>
<td>315</td>
<td>0.27</td>
</tr>
<tr>
<td>Tier D</td>
<td>316 +</td>
<td></td>
<td>0.20</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 models</td>
<td>2</td>
</tr>
</tbody>
</table>

**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


**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.

<table>
<thead>
<tr>
<th>Entitled maintenance offerings description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITCAM Transactns Clnt Resp Cl Dev</td>
</tr>
<tr>
<td>ITCAM Transactns Web Robt c R&amp;T PVU</td>
</tr>
<tr>
<td>ITCAM TransactnsWebRobt c R&amp;T PVU Lx z</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Media pack description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Tivoli Composite Application Manager for Transactions V6.2 MP ML</td>
<td>Bj 0M0ML</td>
</tr>
</tbody>
</table>

**New licensees**

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

**Basic license**

**Ordering information for the distributed product in Passport Advantage**

Passport Advantage allows you to have a common anniversary date for Software Maintenance renewals, which can simplify management and budgeting for eligible new versions and releases (and related technical support) for your covered products. The anniversary date, established at the start of your Passport Advantage Agreement, will remain unchanged while your Passport Advantage Agreement remains in effect. New software purchases will initially include 12 full months of Software Maintenance. Software Maintenance in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date. Thereafter, all Software Maintenance will renew at the common anniversary date for 12 full months of maintenance.

Refer to the IBM International Passport Advantage Agreement and to the IBM Software Support
Handbook for specific terms relating to, and a more complete description of, technical support provided through Software Maintenance.

The quantity to be specified for the Passport Advantage part numbers in the following table is per processor Value Units and per client devices. To order for Passport Advantage, specify the desired part number and quantity.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client response time: per managed client device</td>
<td></td>
</tr>
<tr>
<td>IBM Tivoli Composite Application Manager for Transactions License and Software Maintenance 12 Months</td>
<td>D03L8LL</td>
</tr>
<tr>
<td>IBM Tivoli Composite Application Manager for Transactions Software Maintenance Annual Renewal</td>
<td>E04KELL</td>
</tr>
<tr>
<td>IBM Tivoli Composite Application Manager for Transactions Software Maintenance Reinstatement 12 Months</td>
<td>D03L9LL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web and robotic response and tracking: per processor Value Unit</td>
<td></td>
</tr>
<tr>
<td>IBM Tivoli Composite Application Manager for Transactions License and Software Maintenance 12 Months</td>
<td>D03LGLL</td>
</tr>
<tr>
<td>IBM Tivoli Composite Application Manager for Transactions Software Maintenance Annual Renewal</td>
<td>E04KJLL</td>
</tr>
<tr>
<td>IBM Tivoli Composite Application Manager for Transactions Software Maintenance Reinstatement 12 Months</td>
<td>D03LHLL</td>
</tr>
<tr>
<td>IBM Tivoli Composite Application Manager for Transactions Linux on z License and Software Maintenance 12 Months</td>
<td>D03LELL</td>
</tr>
<tr>
<td>IBM Tivoli Composite Application Manager for Transactions Linux on z Software Maintenance Annual Renewal</td>
<td>E04KJLL</td>
</tr>
<tr>
<td>IBM Tivoli Composite Application Manager for Transactions Linux on z Software Maintenance Reinstatement 12 Months</td>
<td>D03LFLL</td>
</tr>
</tbody>
</table>

On/Off Capacity on Demand

IBM Tivoli Composite Application Manager for Transactions Processor Day OCCoD Temporary Use Charge | D043JLL

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Tivoli Composite Application Manager for Transactions V6.2 CD-ROM media pack -- multilingual</td>
<td>BJ0M0ML</td>
</tr>
</tbody>
</table>

IBM Tivoli Composite Application Manager for Transactions V6.2 is also available, via Web download, from Passport Advantage.

**Ordering information for the MSU-based z/OS product**

**Translation from MSUs to Value Units**

<table>
<thead>
<tr>
<th>MSUs</th>
<th>Value Units/M6U</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: If you are running IBM Tivoli Monitoring on z/OS, you must order the Response Time Enabler for z/OS feature for Composite Application Manager for Transactions for z/OS, V6.2 (5698-B25). This no-charge feature is a z/OS library component that enables the transfer of files to and from agents of the response time component of Composite Application Manager for Transactions for z/OS, V6.2 when running the IBM Tivoli Monitoring framework on z/OS.

Program name: IBM Tivoli Composite Application Manager for Transactions for z/OS
Program PID: 5698-B25

<table>
<thead>
<tr>
<th>Entitlement Identifier</th>
<th>Description</th>
<th>License option/ Pricing metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>S014ZX6</td>
<td>Response Time Tracking on z/OS</td>
<td>Basic OTC, per Value Unit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Basic OTC, per MSU-day TUC</td>
</tr>
<tr>
<td>S014ZX5</td>
<td>Response Time Enabler for z/OS</td>
<td>Basic OTC, per Value Unit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Orderable supply ID</th>
<th>Description</th>
<th>Language</th>
<th>Distribution medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>S014ZXB</td>
<td>Response time tracking on z/OS</td>
<td>Multilingual</td>
<td>3480 tape cartridge</td>
</tr>
<tr>
<td>S014ZXB</td>
<td>Response time enabler for z/OS</td>
<td>Multilingual</td>
<td>3480 tape cartridge</td>
</tr>
</tbody>
</table>

Subscription and Support PID: 5698-R14

<table>
<thead>
<tr>
<th>Entitlement Identifier</th>
<th>Description</th>
<th>License option/ Pricing metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>S014ZXG</td>
<td>Response time tracking on z/OS</td>
<td>Basic ASC, per Value Unit SW S&amp;S</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No charge, decline SW S&amp;S</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Per MSU SW S&amp;S registration</td>
</tr>
<tr>
<td>S014ZXF</td>
<td>Response time enabler for z/OS</td>
<td>Basic ASC, per Value Unit SW S&amp;S</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No charge, decline SW S&amp;S</td>
</tr>
<tr>
<td>S014ZXF</td>
<td>Response time enabler for z/OS</td>
<td>Per MSU SW S&amp;S Registration</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Orderable supply ID</th>
<th>Description</th>
<th>Language</th>
<th>Distribution medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>S014ZXD</td>
<td>Response time tracking on z/OS</td>
<td>Multilingual</td>
<td>Hardcopy publication</td>
</tr>
<tr>
<td>S014ZXJ</td>
<td>Response time enabler for z/OS</td>
<td>Multilingual</td>
<td>Hardcopy publication</td>
</tr>
</tbody>
</table>

Subscription and Support

Subscription and Support must be ordered to receive voice technical support via telephone during normal business hours, and future releases and versions, at no additional charge. The capacity of Subscription and Support (for example, Value Units or number of processors) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program product number and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products, via a separately purchased offering, under the terms of the IBM International Agreement for Acquisition of Software Maintenance (IAASM). 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 automatically renew annually unless
Customized Offerings for z/OS host products

Product deliverables for the z/OS host product are shipped only via Customized Offerings (for example, CBPDO, ServerPac, SystemPac®).

CBPDO and ServerPac are offered for Internet delivery, where ShopzSeries product ordering is available. Internet delivery of ServerPac may help improve automation and software delivery time. For more details on Internet 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

3592 is highest density media. Selecting 3592 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 two weeks after inclusion in ServerPac.
- SystemPac shipments will begin four weeks after inclusion in SystemPac due to additional customization, and data input verification.

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 IPLA, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Terms and conditions for distributed products

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

Licensing: IPLA including the license information (LI) document and 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 Maintenance, previously referred to as Software Subscription and Technical Support.

Agreement for Acquisition of Software Maintenance:

The following agreement applies for maintenance and does not require customer signatures:

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

This program is 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. 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.

**LI form number:** L-NSTL-7D6QR6

The program's LI document will be available for review on the IBM Software License Agreement Web site


**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. 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 know program defects, defect corrections, restrictions, and bypasses at no additional charge. Consult the IBM Software Support Handbook for further information at


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 three years from the general availability date, as long as your 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 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 for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and 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.

**Authorization for use on home/portable computer:** You may not copy and use this program on another computer without paying additional license fees.

**Volume orders (IVO):** No

**Passport Advantage applies:** Yes, and through the Passport Advantage Web site at

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

**Usage restriction:** Yes.

Usage is limited to the quantity of Value Units and client devices licensed.

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


**Software Maintenance applies:** Yes
Software Maintenance is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and Technical Support are provided by the Software Maintenance 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 Maintenance with each program license acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option that is available.

While your Software Maintenance 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 Maintenance 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 Web site at

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

**System i Software Maintenance applies:** No

**Variable charges apply:** No

**Educational allowance available:** Not applicable

**Terms and conditions for host products**

**Licensing:** IPLA including the LI document and PoE govern your use of the program. PoEs are required for all authorized use.

**Agreement for Acquisition of Software Maintenance:**

The following agreement applies for maintenance and does not require customer signatures:

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

This program is 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. 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.

S/390 and System z IBM Operational Support Services — SoftwareXcel is an option for those customers who desire added services.

**License information form number:**GI11-8147

The program's LI document will be available for review on the IBM Software License Agreement Web site


**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. 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 know program defects, defect corrections, restrictions, and bypasses at no additional charge. Consult the IBM Software Support Handbook for further information at


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

Program support: Support for the program product will be available for a minimum of three years from the general availability date with a fee-based option to extend support for up to two additional years. Enhanced support, called Subscription and Support, includes telephone assistance as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months’ notice.

Money-back guarantee: If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you obtained 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 OOCoD) 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.

Volume orders (IVO): No

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 Web site


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 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, 15% education allowance applies to qualified education institution customers.
Sub-capacity terms and conditions for System z 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.

<table>
<thead>
<tr>
<th>Program number</th>
<th>Program name</th>
<th>Terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>5698-B25</td>
<td>IBM Tivoli Composite Application Manager for Transactions for z/OS</td>
<td>z/OS-based</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 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.

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 (and z/OS.e) 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 Web site [http://ibm.com/zseries/library/swpriceinfo/](http://ibm.com/zseries/library/swpriceinfo/)

For more information on sub-capacity System z IPLA terms and conditions, refer to Software Announcement 204-184, dated August 10, 2004.

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:

- That meets the criteria defined in Hardware Announcement 198-001, dated January 13, 1998.
- 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](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 for System z host products**

Sub-capacity utilization is determined based on the utilization of an eligible operating system and machine (for example, z/OS running in z/Architecture (64 bit) mode on a System z (or equivalent) server).

**On/Off CoD for the z/OS host product**

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 Customer Initiated Upgrade and IBM eServer On/Off Capacity on Demand — Software (Z125-6611) must be signed prior to use.

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**IBM Electronic Services**

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.
The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

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**Prices**

Information on charges is available at Web site

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

**Pricing for 5698-xxx MSU-based System z offerings:**

**Program name:** IBM Tivoli Composite Application Manager for Transactions for z/OS

**Program PID:** 5698-B25

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**Subscription and Support PID:** 5698-R14

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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:**

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