Tivoli Workload Scheduler 8.1 Simplifies Workload Management on All Your Systems

Overview

Tivoli’s Workload Scheduler is a suite of programs that includes:

- Tivoli® Workload Scheduler for z/OS™ (previously named Tivoli Operations Planning and Control)
- Tivoli Workload Scheduler (previously named Maestro)
- Tivoli Job Scheduling Console, our Java™-based graphical user interface

Tivoli Workload Scheduler for z/OS

Tivoli Workload Scheduler for z/OS enhances the abilities of Tivoli Operations Planning and Control 2.3 by adding the following:

- Serviceability improvements
- Performance improvements
- More accurate planning capability
- Catalog management
- Removable media manager integration

Tivoli Workload Scheduler

Tivoli Workload Scheduler 8.1 extends the functions of Tivoli Workload Scheduler 7.0 by adding “OPC-like” features, such as free-day rule planning and multiple “free day” or holiday calendars. Serviceability, scalability, performance, and usability are also being enhanced in this new version.

Starting with this new version, both Tivoli Workload Scheduler and Tivoli Workload Scheduler for z/OS will use the common scheduling agent technology, formerly found only in Tivoli Workload Scheduler, to provide full workload management capabilities with:

- Operation system integration
- Multi-tier network architecture
- Performance
- True fault-tolerance

The fault-tolerant agent is available on Windows® 2000 and several distributions of Linux, including SuSe Linux S/390®.

Tivoli Workload Scheduler is integrated with Tivoli Business Systems Manager (TBSM), bringing line-of-business views, monitoring of key jobs, start and stop time tracking, and deadline prediction to the TBSM console.

Tivoli Job Scheduling Console

The new Tivoli Job Scheduling Console has many additional capabilities and added ease-of-use for the planner and the operator. Job streams are easier to define, with fewer actions required. Rows within most views have sorting capabilities.

Best of all, a new common query group has been added to the Job Scheduling Console. From this group, queries containing jobs or job streams from multiple engines (for example, multiple distributed and mainframe controllers) can be created, allowing multiple objects to be managed from a single view.

Each query can have many filtering mechanisms (name, priority, status, and so on). This will allow the create queries such as “show me all jobs in error, regardless of scheduling engine or location.”

Key Prerequisites

A supported UNIX® or Windows operating system and supporting hardware platform.

Refer to the Technical Information section for more detailed requirements.

Planned Availability Date

October 26, 2001

End of Support

Based on the Tivoli end of support policy, Tivoli support for Tivoli Workload Scheduler Version 7.0 will be discontinued 12 months after the planned availability of Version 8.1.

At a Glance

Tivoli Workload Scheduler can help you reduce the complexity of managing the workload on your systems.

Tivoli Workload Scheduler can:

- Help you plan and organize phases of workload production
- Manage the production environment and automate most operator activities
- Prepare your jobs for execution, resolves interdependencies, and launches and tracks each job
- Minimize idle time and improves throughput
- Help increase system control, ease of use, and production capacity
- Help reduce the need for workload management skills at remote locations
- Provide a significant contribution toward unattended operations

For ordering, contact:
Your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL
Reference: YE001

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.
New in Version 8.1

• Many functional enhancements to the Job Scheduling Console which help provide improved usability and graphical presentations
• Integration with Tivoli Business Systems Manager
• Improved scheduling for holidays through “free day” rules and local holiday calendars for centralized management
• SuSe Linux S/390 platform support

Starting with this release, both Tivoli Workload Scheduler (TWS) and TWS for z/OS will use the common scheduling agent technology, formerly found only in TWS, to provide full workload management capabilities with:

• Operation system integration
• Multi-tier network architecture
• Performance
• True fault-tolerance

TWS provides a single point of control for open workload management and uses open interfaces to enable communications with UNIX, Windows, AS/400®, and OS/390® operating environments. It extends the scope for integrated systems management with the TWS Extended Agent Interface. TWS Extended Agents enable you to manage workload on non-TWS platforms and ERP Applications.

Centralized workload management, provided by TWS, helps reduce the need for skilled personnel at remote locations and helps you cost-effectively manage your distributed systems.

In addition, TWS Version 8.1 offers the following serviceability, scalability, and performance enhancements:

• Improved Java-based GUI console that can simultaneously manage both TWS Distributed and z/OS networks, thereby helping to reduce operations staffing, training, and expertise requirements
• Supports ten languages, allowing you to work in a familiar, native environment
• Helps improve your ability to manage systems across multiple time zones by attributing the appropriate time zone to each workstation
• Logs changes made to the TWS database or plan to a log file for auditing and security purposes

The Job Scheduling Console

The Job Scheduling Console is a Java-based multiplatform interface for configuring, viewing, and modifying all aspects of workload planning at your site. From the Job Scheduling Console, you can:

• Create database objects, such as, workstations, workstation classes, jobs, job streams, calendars, parameters, resources, prompts, domains, and users. These are the building blocks used to create and organize your workload plan.
• Schedule your jobs and job streams to create a plan for job execution, using the many different TWS job dependency types.
• Monitor the execution of all your jobs and job streams.
• Modify the execution of all your jobs and job streams, by adding, modifying, or deleting jobs or job streams in the plan.

Accessibility by People with Disabilities

For software offerings:
The following features support use by people with disabilities:

• Operation by keyboard alone
• Optional font enlargement and high-contrast display settings
• Screen readers and screen magnifiers tested for use by people with visual impairment
• Speech recognition products tested for use by people with mobility impairment
• Optional display of audio alerts for people with hearing impairment

Euro Currency

This program is not impacted by euro currency.

Trademarks

z/OS is a trademark of International Business Machines Corporation in the United States or other countries or both. S/390, AS/400, and OS/390 are registered trademarks of International Business Machines Corporation in the United States or other countries or both. Windows is a registered trademark of Microsoft Corporation. Java is a trademark of Sun Microsystems, Inc. UNIX is a registered trademark is a registered trademark of the Open Company in the United States and other countries. Tivoli is a registered trademark of International Business Machines Corporation or Tivoli Systems Inc. in the United States or other countries or both. Other company, product, and service names may be trademarks or service marks of others.
Education Support

Training is available for many Tivoli® products. Education is offered through IBM Education and Training, and through Tivoli Systems. Worldwide information about education offerings is available on the IBM Education and Training home page at:

http://www.training.ibm.com

For current information on Tivoli Systems education, call 512-436-8000, or visit the Tivoli Systems home page at:

http://www.tivoli.com/services/education

Offering Information

Product information will be available on day of announcement through Offering Information (OITOOL) at:

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

Publications

The translated publications of Tivoli Workload Scheduler (TWS) will be available on December 28, 2001.

The following publications for TWS (5698-WKB) are provided with the base package.

<table>
<thead>
<tr>
<th>Publication Name</th>
<th>Form Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job Scheduling Console Release Notes</td>
<td>U.S. English SH19-5781</td>
</tr>
<tr>
<td>Planning and Installation Guide</td>
<td>U.S. English SH19-4555</td>
</tr>
<tr>
<td>Error Messages</td>
<td>U.S. English SH19-4557</td>
</tr>
<tr>
<td>Release Notes</td>
<td>U.S. English GI10-5788</td>
</tr>
</tbody>
</table>

When the z/OS™ 390 components are ordered the following publications are shipped with the product.

<table>
<thead>
<tr>
<th>Publication Name</th>
<th>Form Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controlling and Monitoring the Workload</td>
<td>English SH19-4547</td>
</tr>
<tr>
<td>Customizing and Tuning</td>
<td>U.S. English SH19-4544</td>
</tr>
<tr>
<td>General Information Manual</td>
<td>U.S. English GH19-4539</td>
</tr>
<tr>
<td>Job Scheduling Console User’s Guide</td>
<td>U.S. English SH19-4552</td>
</tr>
<tr>
<td>Program Interface</td>
<td>U.S. English SH19-4545</td>
</tr>
<tr>
<td>Quick Reference</td>
<td>U.S. English GH19-4541</td>
</tr>
<tr>
<td>Planning and Scheduling the Workload</td>
<td>U.S. English SH19-4546</td>
</tr>
<tr>
<td>Reference Guide</td>
<td>U.S. English SH19-4556</td>
</tr>
</tbody>
</table>

Visit the following Internet Web site for access to the IBM Publications Center:

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

Softcopy publications are available on the following Internet Web site.

http://www.tivoli.com/support/documents/

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.
Technical Information

Specified Operating Environment

Hardware Requirements: Hardware platforms supporting the software operating systems and levels stated in the Software Requirements section.

z/OS components of TWS

TWS operates on any IBM hardware configuration supported by one of the following:
- OS/390® Version 2.6 or later (5647-A01)
- z/OS Version 1.1 or later (5694-A01)

The Job Scheduling Console

The Job Scheduling Console requires, at minimum, one of the following processors:
- Pentium® 233 computer with 128 MB of RAM and 35 MB of disk space plus 2 MB for each installed language, capable of running one of the following operating systems: Windows® 98, Windows NT® Version 4.0 Service Pack 5 or 6a. 256 MB of RAM is recommended for performance reasons.
- RS/6000® computer with a minimum of 128 MB of RAM, capable of running AIX®/6000 Version 4.3.3s or 5.1.
- SPARC computer with a minimum of 64 MB of RAM, capable of running Solaris Version 2.7 or 2.8.
- A 700-series or 800-series computer capable of running HP-UX Version 11.0 or 11i.
- Pentium processor capable of running Red Hat Linux 7.1.

The Tivoli Workload Scheduler Connector requires, at minimum, one of the following processors:
- Pentium 233 computer capable of running one of the following operating systems: Windows NT Version 4.0 Service Pack 5 or 6a, Windows 2000 Service Pack 1. 128 MB of RAM is recommended for performance reasons.
- RS/6000® computer capable of running AIX/6000 Version 4.3.3s or 5.1.
- A 700-series or 800-series computer capable of running HP-UX Version 11.0 or 11i.
- A SPARC computer capable of running Solaris Version 2.7 or 2.8.
- Pentium processor capable of running Red Hat Linux 7.1.

One Job Scheduling Console Connector can be used to communicate with multiple Tivoli Workload Scheduler Controllers, and can serve multiple machines running the Job Scheduling Console. The Job Scheduling Console and the Job Scheduling Console Connector can be installed on the same machine.

Software Requirements: TWS 8.1 requires Tivoli Management Framework 3.7.1 for all platforms except Red Hat Linux 7.1, which requires 3.7.b.

TWS Job Scheduling Console requires Version 1.3.0 Java™ Runtime Environment (JRE) 1.3.0. The 1.3.0 JRE is provided with the TWS JSC.

TWS 8.1 Fault Tolerant Scheduling Agent runs on the following software platforms.
- IBM AIX 4.3.3s and 5.1
- Hewlett Packard HP-UX 11.0 and 11i
- Sun Solaris 2.7 and 2.8
- Windows NT Version 4.0 SP5 through SP6A
- Windows 2000 Professional, Server, Advanced Server SP1® or SP2®
- Linux Red Hat 7.1
- SuSe Linux for S/390®
- Compaq True 64 5.1
- IBM OS/400® 4.5,4.6
- SGI Irix 6.5
- IBM Sequent® DYNIX® 4.5

Tivoli Workload Scheduling 8.1 Connector runs on the following software platforms.
- IBM AIX 4.3.3s and 5.1
- Hewlett Packard HP-UX 11.0 and 11i
- Sun Solaris 2.7 and 2.8
- Windows NT Version 4.0 SP5 through SP6A
- Windows 2000 Professional, Server, Advanced Server SP1, SP2
- Linux Red Hat 7.1

Tivoli Job Scheduling Console Client runs on the following software platforms.
- IBM AIX 4.3.3s and 5.1
- Hewlett Packard HP-UX 11.0 and 11i
- Sun Solaris 2.7 and 2.8
- Windows 98, Millenium
- Linux Red Hat 7.1

A manufacturer’s refresh of the Job Scheduling Console will be made available periodically. Customers will be expected to migrate to the latest release upon its availability.

TWS 8.1 runs with the following TWS extended agents.
- SAP R/3 Integration 4.0 or later
- PeopleSoft Integration 1.1 or later
- Oracle Financials Integration 1.3 or later
- MVS™ Integration 1.4.5 or later

Engine 390 and Agents, formerly called Controller 390 and Trackers run on the following operating systems:
- OS/390 Version 2.6 or later
- z/OS Version 1.1 or later

z/OS Components of TWS

TWS z/OS Engine and Agent components require one of the following environments:
- z/OS Version 1.1 or later (5694-A01)
- OS/390 Version 2.6 or later (5647-A01)
Installing and maintaining TWS requires:

- System Modification Program Extended (SMP/E) Release 8.1 (5668-949) or later with APAR IR40155
- OS/390 Version 2 Release 6 or later
- z/OS Version 1.1 or later

**Controlling System**

The following IBM licensed programs are required on the TWS z/OS controlling system:

- Both the base product (the Agent formerly called the tracker), and the Engine formerly called the Controller are required if any Tracker Agents are used.
- Data Facility Sort (DFSORT®) Release 9 (5740-SM1), or equivalent product.
- Communication Server for OS/390 Release 2.6 or later is required for APPC and TCP/IP Communications.

**Job Scheduling Console**

The Job Scheduling Console requires the following software:

**Job Scheduler Console:**

- IBM AIX 4.3.3s, 5.1
- HP-UX PA-RISC 11.0, 11i
- Sun Solaris 2.7, 2.8
- Windows NT 4.0 SP5, SP6a
- Windows 2000 Professional, Server, Advanced Server, SP1 or SP2
- Windows 98, Millennium
- Linux Red Hat 7.1
- JRE 1.3.0

**Workload Scheduler for z/OS Connector:**

- IBM AIX 4.3.3s, 5.1
- HP-UX PA-RISC 11.0, 11i
- Sun Solaris 2.7, 2.8
- Windows NT 4.0 SP5, SP6a
- Windows 2000 Professional, Server, Advanced Server SP1 or SP2
- Linux Red Hat 7.1
- Tivoli Management Framework 3.7.1 and 3.7.b for Red Hat Linux 7.1

**Optional Software**

The following TWS functions require specific IBM programs:

- IBM DB2® Version 5 or later for TWS history functions.
- Tracking resource availability requires the Resource Object Data Manager (RODM) in NetView Version 3 (5655-007), or Tivoli NetView for OS/390 (5697-B82).
- Communication Server for OS/390 Version 2.6 or later is required for Remote APPC and TCP/IP Communications.
- Tivoli NetView for OS/390 (5697-B82) is required to enable TWS to schedule generic alerts as defined by that NetView release.
- Tivoli NetView for OS/390 (5697-B82) is required to specify an alert receiver ID other than the default receiver.
- User-authority-support functions require Resource Access Control Facility (RACF®) Version 2 (5695-039) or later, or OS/390 Release 1 (5645-001) Security Server or later.
- DFSMS/MVS® (5695-DF1) with Hierarchical Storage Management component is required for the catalog management function to recall migrated datasets.
- The TWS Control Language tool requires the IBM Compiler Library for REXX/370 Version 1 Release 3 (5695-014).

**Compatibility: TWS Distributed Components**

The TWS 8.1 distributed components, are compatible with TWS V7 to help users with gradual migration of their systems. TWS users can also migrate from TWS V6.1 directly to TWS 8.1.

**TWS Distributed**

For TWS distributed the supported combinations of Connector and Engine are the following:

<table>
<thead>
<tr>
<th>JSC Level</th>
<th>TWS Connector</th>
<th>TWS Engine (FTA or Master)</th>
<th>Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
<td>7.0</td>
<td>7.0</td>
<td>Yes</td>
</tr>
<tr>
<td>1.2</td>
<td>8.1</td>
<td>8.1</td>
<td>Yes</td>
</tr>
<tr>
<td>1.2</td>
<td>7.0</td>
<td>8.1</td>
<td>No</td>
</tr>
<tr>
<td>1.2</td>
<td>8.1</td>
<td>7.0</td>
<td>No</td>
</tr>
<tr>
<td>1.1</td>
<td>7.0</td>
<td>7.0</td>
<td>Yes (**)</td>
</tr>
<tr>
<td>1.1</td>
<td>8.1</td>
<td>8.1</td>
<td>Yes (**)</td>
</tr>
<tr>
<td>1.1</td>
<td>8.1</td>
<td>7.0</td>
<td>No</td>
</tr>
<tr>
<td>1.1</td>
<td>7.0</td>
<td>8.1</td>
<td>No</td>
</tr>
</tbody>
</table>

The TWS Connector and downstream Engine must be at the same level.

(++) JSC 1.1 Level has limitations when working with TWS Engine/Connector 8.1 if the database objects have been modified using a JSC 1.2 Level with the new functions.

**TWS for z/OS**

The z/OS components of TWS, will be compatible with Tivoli OPC V2 (5697-OPC) to help users with gradual migration of their systems. The following Tracker Agents for distributed platforms are not provided with TWS V8.1:

- IBM System 390/USS
- IBM AIX
- HP UX
- Sun Solaris
• Windows NT
• IBM OS/2®
• Open VMS
• IBM OS/400
• SGI Irix

TWS V8.1 is compatible with the Tracker Agents provided with Tivoli Operation Planning and Control V2 (5697-OPC).

Job Scheduling Console (JSC)

JSC 1.2 is compatible only with the previous TWS 7.0 Connector/Engine and OPC 2.3 Connector 1.1. (OPC Connector 1.1 refresh level was distributed on June 2000 with JSC 1.1.) With the following limitations:

• Only TWS 7.0 and OPC V2 functions are supported from the Console
• New JSC 1.2 functions will not work with previous Connectors/Engines

For TWS for z/OS installations migration to the latest level of JSS and Connector is recommended, independent of the downstream OPC versions. TWS for z/OS Connector is able to support any OPC V2 release level as well as the new TWS for z/OS 8.1.

Function No Longer Supported in Version 8.1

The following functions and related documentation are not a part of TWS 8.1 z/OS components:

• Workload Monitor/2

The following functions and related documentation are not part of TWS 8.1 Distributed:

• All functions related to the so-called legacy GUIs, including GCONMAN, GCOMPOSER
• Visual Maestro
• Remote Console
• HP OpenView
• IT Operation (former HP OpC)
• Tivoli GEM Instrumentation

Planning Information

Packaging

TWS is distributed with:

• International Program License Agreement (Z125-3301)
• License Information document (LC23-4474)
• TWS 8.1 CD (LK3T-5074)
• TWS — HPUX/AIX JRE 1.3.0 CD for use with JSC (SK2T-6954)
• Tivoli JSC CD 1.2 (SK2T-6952)
• 3480 tape cartridge
• TWS for z/OS online product library (SK2T-6951)
• Diagnosis Guide and Reference z/OS (LY19-6410)
• Refer to the Publications section of this announcement for a complete list of publications

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

Security, Auditability, and Control

TWS uses the security and auditability features of the operating system software and the Tivoli Management Framework.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering Information

Current Licensees: Current licensees with support in effect will receive instructions on how to order this update.

New Licensees: Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

Ordering Information for 5698-WKB

Ordering information for 5698-WKB will continue for a limited time to allow migration to the PA offering.

Ordering Information for TWS remains unaffected by this announcement with the exception of PA Media Packs and Documentation Packs.

Refer to the following announcements for complete ordering information.

• Software Announcement 200-100, dated April 25, 2000.

Ordering Information for PA

To order a media pack or a documentation pack for PA, specify the applicable 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>Tivoli Workload Scheduler Version 8.1 BJ01KML</td>
<td></td>
</tr>
<tr>
<td>Media Pack Multilanguage</td>
<td></td>
</tr>
<tr>
<td>Tivoli Workload Scheduler Version 8.1 BJ01LIE</td>
<td></td>
</tr>
<tr>
<td>Documentation Pack International English</td>
<td></td>
</tr>
<tr>
<td>Tivoli Workload Scheduler Version 8.1 BJ01LBP</td>
<td></td>
</tr>
<tr>
<td>Documentation Pack Brazilian Portuguese</td>
<td></td>
</tr>
<tr>
<td>Tivoli Workload Scheduler Version 8.1 BJ01LES</td>
<td></td>
</tr>
<tr>
<td>Documentation Pack Spanish</td>
<td></td>
</tr>
<tr>
<td>Tivoli Workload Scheduler Version 8.1 BJ01LFR</td>
<td></td>
</tr>
<tr>
<td>Documentation Pack French</td>
<td></td>
</tr>
<tr>
<td>Custom Build Registration (5698-WKB) D00T6LL</td>
<td></td>
</tr>
</tbody>
</table>
Withdrawal of PA Part Numbers

The following PA part numbers are withdrawn effective immediately:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BJ7AEML</td>
<td>Media Pac V1.7.0 (5698-WKB)</td>
</tr>
<tr>
<td>BJ7C3IE</td>
<td>International English Doc Pac V1.7.0 (5698-WKB)</td>
</tr>
<tr>
<td>BJ7C3FR</td>
<td>French Doc Pac V1.7.0 (5698-WKB)</td>
</tr>
<tr>
<td>BJ7C3ES</td>
<td>Spanish Doc Pac V1.7.0 (5698-WKB)</td>
</tr>
<tr>
<td>BJ7C3BP</td>
<td>Brazilian Portuguese Doc Pac V1.7.0 (5698-WKB)</td>
</tr>
</tbody>
</table>

Basic Machine-Readable Material

<table>
<thead>
<tr>
<th>Language</th>
<th>Feature Number</th>
<th>Distribution Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>5809</td>
<td>CD-ROM</td>
</tr>
</tbody>
</table>

The S/390 (z/OS and OS/390) software components of TWS will ship via Customized Offerings (that is, ServerPac, SystemPac, CBPDO).

PA customers ordering these S/390 products will specify a NC Custom Build Registration OS/390 part number rather than the PA Media Pac.

PA Custom Build

Registration

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Program Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>D00T6LL</td>
<td>Tivoli Workload Scheduler</td>
</tr>
</tbody>
</table>

Customers continuing to order the 5698-WKB S/390 products outside of PA will specify a NC feature code.

In either case, the customer will be contacted by an IBM country representative to complete the customization order details. To order any of the S/390 Tivoli products, select the CBPDO Customized Offering. The Configurator will then present a catalog for product selection and will generate the appropriate feature numbers based on the selections made during the configuration.

Executable code for the OS/390 or z/OS 5698-WKB product will only be delivered via Customized Offerings.

5698-WKB          TWS          2427          5802          3480

Customization Options: Select the appropriate feature numbers to customize your order with delivery options desired. These features can be specified on the initial or MES orders.

Example: If publications are not desired for the initial order, specify feature number 3470 to ship media only. For future updates, specify feature number 3480 to ship media updates only. If, in the future, publication updates are required, order an MES to remove feature number 3480; then, the publications will ship with the next release of the program.

Terms and Conditions

For a limited time during the migration period to PA, customers may acquire eligible Programs and Tivoli Support under agreements outside of PA.

Terms and conditions for Tivoli Value-Based Pricing and IBM PA are as follows:

Agreement

For orders under 5698-WKB:

IBM International Program License Agreement (IPLA),
IBM International Agreement for Acquisition of Programs and Support (IIAAPS) and the IBM Attachment for Support, IBM Agreement for Acquisition of Support (IAAS), IBM Addendum for Support for Tivoli Systems Products under Value-Based Pricing, and an Order Form.

For orders under PA:

IBM International Program License Agreement (IPLA),
IBM International Passport Advantage Agreement (PPA),
and an IBM International Passport Advantage Enrollment Form.

Transferable: Yes, except for programs acquired at a discount or allowance.
Limited Warranty Applies: Yes

Guarantee: 30 days

Usage Restriction: Yes. Usage is limited to the quantity of Tivoli Management Points acquired for a one-time charge.

Volume Offering (IVO): No

Upgrade Protection Applies: Covered as long as Tivoli Support or Software Maintenance is in effect

Educational Allowance Available: Yes, to qualified education institution customers

Percentage: 15%

Licensed Program Materials Availability
- Restricted Materials of IBM: None
- Non-Restricted Source Materials: None
- Object Code Only (OCO): All

Maintenance Applies
- Software Maintenance under PA: Yes
- Support for Tivoli Products: Yes

Complementary Introductory Support: Not available

Tivoli Support and PA Software Maintenance

Support Center applies: Yes
Access is available through the IBM Support Center, 800-237-5511

Availability of Tivoli Support: The first year of Tivoli Support is available at no additional charge. The first year starts when the product is shipped to the customer. Subsequent years of Tivoli Support are available for a fee as part of the IAAAS, IIAAPS, or any equivalent agreement

Availability of PA Software Maintenance: PA Software Maintenance is provided at no additional charge for each eligible program acquired during the initial term. PA Software Maintenance is provided at an additional charge for all eligible programs in the second and subsequent terms

Tivoli Support and PA Software Maintenance are available until: Twelve months after announcement of product discontinuance, (that is, end-of-life (EOL))

Tivoli Support and PA Software Maintenance are applicable to: The current release The immediate previous release level for 12 months after the general availability of the current release

APAR Mailing Address: Tivoli Systems Inc. 11400 Burnet Road Austin, TX 78758 U.S.A.
Attention: Product Development

IBM Operational Support Services — Support Line: No

Product Web Site: A complete list of products, terminology definitions, and licensing documents are available at the following Web site:

http://www.tivoli.com/products/licensing/

Prices

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