



# IBM Tivoli Workload Scheduler V9.2 and IBM Workload Automation V9.2 provide increased operational efficiency and new capabilities to respond to new cloud, mobile, and big data challenges

## Table of contents

<a href="#">1 Overview</a>	<a href="#">5 Technical information</a>
<a href="#">2 Key prerequisites</a>	<a href="#">13 Ordering information</a>
<a href="#">2 Planned availability date</a>	<a href="#">15 Terms and conditions</a>
<a href="#">2 Description</a>	<a href="#">19 Prices</a>
<a href="#">4 Program number</a>	<a href="#">19 Order now</a>
<a href="#">5 Publications</a>	

## At a glance

IBM® Tivoli® Workload Scheduler V9.2 delivers:

- A standard platform for jobs, applications, and processes automation across multiple systems.
- Predictable long term view of plans and objectives.
- Timely delivery of business-critical services and compliance to Service Level Agreements.
- The capability for operators to target their intervention in business-critical situations.
- Dynamic automation and cloud technology to help reduce fixed costs.
- Capability to help reduce application management costs.
- Automation reach to business applications.
- Collaboration with other software tools in support of end-to-end lifecycle processes.
- Secured automation services to business users through self-service catalogs.
- Enhancements to operations efficiency with fewer errors.

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

## Overview

IBM Tivoli Workload Scheduler V9.2 integrates with existing data center systems and cloud resources, with simplified integration between service management software, and delivers improved productivity for the day-by-day operations. It also enhances operational efficiency through mobile self-service dashboards and workload management capabilities.

Enhancements for IBM Tivoli Workload Scheduler components apply to both IBM Tivoli Workload Scheduler and IBM Workload Automation.

Features that can help improve productivity by simplifying the collaboration with other tools include:

- Automatic management of trouble tickets for ended-in-error jobs.
- Dynamic provisioning of distributed resources to manage temporary or intermittent automation requests.
- Automatic discovery of IBM Tivoli Workload Scheduler and the business impact in case of failure.
- Simplified configuration for Dynamic Agents over Internet (firewall friendliness).

Enhanced features that can help simplify the day-by-day operations include:

- Increased speed in the Tivoli Dynamic Workload Console when searching for jobs, jobstreams, and workstations.
- Enhanced flexibility for the manipulation of the plan objects and during the creation of the plan (plan extension).
- Microsoft™ Windows™ scripting language support.
- Event rule enhancement.
- Streamlined Workload Application Template manipulations.

Mobile features that enhance operations:

- Self-service monitoring and management dashboard available on mobile

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## Key prerequisites

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Refer to the [Software requirements](#) and [Hardware requirements](#) sections.

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## Planned availability date

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- February 28, 2014: Electronic download
- March 7, 2014: Physical delivery

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## Description

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IBM Tivoli Workload Scheduler V9.2 offers the backbone infrastructure to automate the execution of batch and near real-time workloads and activities running in support of business services, and helps provide the reliable and Service Level Agreement (SLA)-compliant delivery of those business services. When used in combination with IBM Tivoli Workload Scheduler for z/OS® and IBM Tivoli Workload for Applications, it extends the automation capabilities to span across heterogeneous systems, and manages workflows that integrate mainframe application with distributed application, Enterprise Resource Planning, and Business Intelligence applications. IBM Tivoli Workload Scheduler offers mechanisms for resource virtualization and leverages cloud technologies, all in an effort to minimize fixed costs. IBM Tivoli Workload Scheduler provides a modern web-based interface, called IBM Tivoli Dynamic Workload Console, for operations, administrative tasks, and reporting, and offers self-service catalog mobile interfaces to expose scheduling services to business users in a natural language.

IBM Tivoli Workload Scheduler V9.2 can integrate with existing data center systems and cloud resources, with simplified integration between service management software, and deliver improved productivity for the day-by-day operations. It also enhances operation efficiency through mobile self-service dashboards and workload management capabilities.

IBM Tivoli Workload Scheduler improves user's productivity by simplifying the collaboration with other tools and these specific enhanced capabilities:

- Automatic management of trouble tickets for ended-in-error jobs: User defined categories of jobs trigger the automatic creation of trouble tickets when jobs fail. Tickets are created containing information related to the failing job, for example,

the reason for failing and the recommended recovery actions. To accomplish this scenario, IBM Tivoli Workload Scheduler adheres to the Open Standard Lifecycle Collaboration, thus making its objects and artifacts available for integration with ticketing tools, such as IBM SmartCloud® Control Desk that adhere to the same standard.

- Dynamic provisioning of distributed resources to manage temporary or intermittent automation requests: IBM Tivoli Workload Scheduler is registered with Open Standard Lifecycle Collaboration as a provider and consumer of provisioning services. This means that, when acting as a provider, any provisioning tool adhering to the same standard can provision IBM Tivoli Workload Scheduler services and implement scenarios of dynamic resource scaling based on changing business needs. When acting as a consumer, IBM Tivoli Workload Scheduler can schedule any provisioning service as long as the provisioning tool adheres to the same standard and implements scenarios where the provisioning of resources occurs on a calendar or event basis.
- Automatic discovery of IBM Tivoli Workload Scheduler objects and their business impact in case of failure: IT administrators and operators can understand the business impact of failures in IBM Tivoli Workload Scheduler objects. IBM Tivoli Workload Scheduler objects are automatically discovered and stored into a Change and Configuration Management Database, so that, when a failure occurs in the system, its impact on those objects is immediately determined, and the final impact on business services is provided in the form of alerts sent out to the Tivoli Business Service Manager console.
- Simplified configuration for Dynamic Agents over the Internet (firewall friendly): To unleash the potential of increased workload delivery, IBM Tivoli Workload Scheduler is enhanced to enable the Dynamic Agents to communicate directly through the Internet and with Network Address Translation (NATs). The new protocol between agents and the broker requires only connections from the agent to the broker. This configuration also supports proxy servers.

Features in IBM Tivoli Workload Scheduler that simplify day-to-day operations:

- Increased speed of use when searching for jobs, jobstreams, and workstations in Tivoli Dynamic Workload Console.
  - New panes are available in Tivoli Dynamic Workload Console that allow for fast filtering and search of jobs, jobstreams, and workstations.
- Enhanced flexibility for the manipulation of the plan objects and during the creation of the plan (plan extension).
  - Tivoli Workload Scheduler objects are moved from model to plan during plan extension, and the plan extension has side effects that can affect the scheduling and the monitoring of the execution. While for some objects, it is important to wait for the plan extension (run cycles, dependencies), for other objects, an immediate change is required (workstations, users, and passwords).
  - Dynamic workstations can now be automatically added to the symphony file when they are created. (This feature can be enabled and disabled.)
  - Creation and modification of a password in the model will be immediately reflected in the plan.
  - A new option is added to JnextPlan to reduce the side effects. With this new option, completed job and job streams are not removed from the plan and all the other objects are recreated from the model.
  - Enhanced serviceability with an improved tracing for JNextPlan and ResetPlan, and relative output now stored in the stdlist directory.
- Microsoft Windows scripting language support
  - On UNIX™ and Linux™, the scripting language (interpreter) can be specified in the first line of the script, while on Microsoft Windows, the file extension specifies the scripting language. A new field has been added in the job definition to specify the file extension of the script, and all the scripting languages that are supported (cmd, vbs, nodejs).
  - Support of UPN format for Microsoft Windows users (user creation, monitoring execution) and into security file.

- Event rule enhancement: The job number is now available as a variable in the event rules. With this enhancement, jobs can be easily identified in the plan and running processes can also be easily found.
- Streamlined Workload Application Template manipulations
  - Introduced in V9.1, the Workload Application Templates are now defined from the Tivoli Dynamic Workload Console, deployed from the wappman command line (deploy, un-deploy, and update) and deleted from the Tivoli Dynamic Workload Console or the composer command line.
- Features in IBM Tivoli Workload Scheduler that enhances operations through mobile.
  - Self-service monitoring and management dashboard available on mobile.
    - New Workload Scheduler users are emerging. They are the application and business users. Instead of challenging the IBM Tivoli Workload Scheduler staff with their business requests to submit or track workload processes, now they can autonomously run and monitor those processes through a secured self-service monitoring and management interface, offered on mobile but also accessible through the browser. The mobile services provided for Tivoli Workload Scheduler are enriched with dashboards for business users to check for their workload health and take basic recovery actions.

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### Accessibility by people with disabilities

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

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

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### Section 508 of the US Rehabilitation Act

IBM Tivoli Workload Scheduler V9.2 and IBM Workload Automation V9.2 are capable as of February 28, 2014, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested on the following website

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

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### Program number

Program number	VRM	Program name
5698-WSH	9.2	IBM Tivoli Workload Scheduler
5725-G80	9.2	IBM Workload Automation

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### 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

<http://www-306.ibm.com/software/tivoli/education/>

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## Offering Information

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Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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

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## Publications

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The IBM Tivoli Workload Scheduler V9.2 Quick Start Guide, English and translated publications, are delivered on a separate publications CD-ROM with the basic machine-readable material. They will be available on February 28, 2014, and can be downloaded from the Tivoli Publications Center website at

[http://publib.boulder.ibm.com/infocenter/tivihelp/v47r1/index.jsp?topic=/com.ibm.tivoli.itws.doc\\_9.1/index.jsp](http://publib.boulder.ibm.com/infocenter/tivihelp/v47r1/index.jsp?topic=/com.ibm.tivoli.itws.doc_9.1/index.jsp)

The IBM Publications Center

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

Beginning on February 28, 2014, all the available program publications can be downloaded in English from the following website on the general availability date. Select the Workload Automation V9.2 category. Translated copies, in selected languages, will be available within 60 days after the general availability date at

[http://publib.boulder.ibm.com/infocenter/tivihelp/v47r1/topic/com.ibm.tivoli.itws.doc\\_9.2/welcome\\_TWA.html](http://publib.boulder.ibm.com/infocenter/tivihelp/v47r1/topic/com.ibm.tivoli.itws.doc_9.2/welcome_TWA.html)

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.

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## Technical information

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### Specified operating environment

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#### *Hardware requirements*

Refer to the IBM Tivoli Workload Scheduler System Requirements document for a complete list of hardware requirements. On February 28, 2014, the documentation will be available at

<http://www-01.ibm.com/support/docview.wss?rs=672&uid=swg27041009>

On February 28, 2014, the system requirements for Tivoli Dynamic Workload Console can be found at

<http://www-01.ibm.com/support/docview.wss?rs=672&uid=swg27041008>

On February 28, 2014, IBM Workload Automation V9.2 hardware requirements will be available at

<http://www-01.ibm.com/support/docview.wss?rs=672&uid=swg27041009>

## **Software requirements**

Refer to the IBM Tivoli Workload Scheduler System Requirements document for a complete list of supported operating systems, software requirements, and hardware requirements. On February 28, 2014, the documentation will be available at

<http://www-01.ibm.com/support/docview.wss?rs=672&uid=swg27041009>

On February 28, 2014, the system requirements for Tivoli Dynamic Workload Console can be found at

<http://www-01.ibm.com/support/docview.wss?rs=672&uid=swg27041008>

IBM Workload Automation V9.2

Refer to the IBM Tivoli Workload Scheduler System Requirements document for a complete list of supported operating systems, software requirements, and hardware requirements. On February 28, 2014, the document will be available at

<http://www-01.ibm.com/support/docview.wss?rs=672&uid=swg27041009>

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

## **IBM Electronic Support**

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

<http://ibm.com/electronicssupport>

Access the IBM Support Portal

<http://ibm.com/support>

Access the online Service Request tool

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

## **Planning information**

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Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express®. Product upgrades and technical support are provided by the Software Subscription and Support (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 Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (Software Maintenance) can be extended by the purchase of a renewal option, if available.

## **Packaging**

IBM Tivoli Workload Scheduler V9.2 and IBM Workload Automation V9.2 are distributed with:

- International Program License Agreement (Z125-3301)
- License Information document
- CD-ROM
- Publications (refer to the [Publications](#) section)

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

## **Security, auditability, and control**

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The products in this announcement use 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.

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## **Software Services**

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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/>

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## **Licensing metric definitions and pricing examples**

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### **Licensing metric definitions**

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Tivoli software products are priced using Tivoli's Enhanced Value-Based Pricing. The Enhanced Value-Based Pricing system is based upon the 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.

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 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 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 core of the server managed by the Tivoli application to help correlate price to value while offering a simple solution.

For servers with physical or logical (sometimes called virtual) partitions, entitlements are required for all installed and activated processor cores on the server. For each Tivoli application managing a clustered environment, licensing is based on the cumulative number of installed and activated processor cores on each server in the cluster.

Enhanced Value-Based Pricing recognizes the convergence of RISC and UNIX and Microsoft Windows and Intel™ technologies, in order to simplify the customer's licensing requirements, and to provide a smoother, more scalable model. Pricing and licensing do 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**

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### **Engine**

An engine is also referred to as a central processor (CP) or processor. Engines for traditional workloads are called General Purpose CPs. Engines for Linux workloads are called Integrated Facility for Linux (IFL) engines or Linux-only engines. Engines for Coupling Facility workloads are called Integrated Coupling Facility (ICF) engines.

### **Enterprise**

An Enterprise is a person or single entity and the subsidiaries owned by more than 50%.

### **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 OS/390® server. Consequently, executing Linux workload on the IBM IFL will not, in most cases, result in any increased IBM software charges for z/OS, OS/390, VM, VSE, or TPF operating systems or applications. There is, as indicated, a charge associated with the IFL, and there may also be a charge for applications that run on the IFL.

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 S/390® traditional 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, is supported by the IBM S/390 IFL.

### **Managed Processor core (charging under full capacity in the managed environment)**

Managed Processor core charges are based on the active processor cores on the machines in the computing environment affiliated with the program rather than on the server where the program is run. The managed processor cores that require Proofs 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 1 or more arithmetic and logic units.
2. Multicore technology allows two or more processor (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 which 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

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

### **Millions of Service Units (MSU)**

MSU is defined as millions of CPU service units per hour; the measure of capacity used to describe the computing power of the hardware processors on which S/390 or System z software runs. 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

<http://www-03.ibm.com/systems/z/resources/swprice/>

### **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 licenses 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 entitlement(s) 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, which 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 servers, users, client devices, and messages. The number of Value Unit entitlements required for a specific implementation of the given program must be obtained from a conversion table associated with the program. Customers must obtain a PoE for the appropriate number of Value Unit entitlements for their 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 processor cores 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 website

[http://www-01.ibm.com/software/lotus/passportadvantage/pvu\\_licensing\\_for\\_customers.html](http://www-01.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html)

## **Processor Value Unit (PVU)**

PVU is a unit of measure by which the program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU table by processor vendor, brand, type, and model number at

[http://www.ibm.com/software/lotus/passportadvantage/pvu\\_licensing\\_for\\_customers.html](http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html)

and the number of processors made available to the program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores.

## **Monthly Jobs**

Monthly Jobs is a unit of measure by which the IBM Workload Automation program can be licensed. A Job is an object within the IBM Workload Automation program that cannot be further divided and represents a computing process including all its sub-processes. The customer licensee must obtain sufficient entitlements to cover the maximum number of Jobs processed or managed by IBM Workload Automation in any calendar month.

## **Job Count Tracking**

IBM Tivoli Workload Scheduler (component of IBM Workload Automation) provides a function that will track every launched job historically, and retains it for query and reporting purposes. The metric for job counting must be applied to the entire environment managed by a single Master Domain Manager, represented by the production of a single plan covering the entire managed network.

## **Product and licensing websites**

A complete list of IBM Tivoli products is available at

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

IBM Tivoli product licensing documents are available at

<http://www.ibm.com/software/tivoli/products/licensing.html>

## Passport Advantage

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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:

- 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 determined by that analysis.
- 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 maintenance to the first anniversary date.
- Annual Software Maintenance Renewal - This is the 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.

## Distributed pricing examples

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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 Scheduler. 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 website

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

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

**Pricing examples for IBM Tivoli Workload Scheduler (part number BJ158ML), including IBM Tivoli Workload Scheduler for z/OS Agent (part number BJ159ML)**

The following customer network applies to all of the examples to enable the reader to see where products tend to manage something less than the entire environment. The customer's environment includes:

**Distributed Servers:**

- Twenty uniprocessor cores
- Sixty Five 2-way servers
- Twelve 4-way servers
- One 8-way server
- One 12-way server with two 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

**Others:**

- One z800 server with two uniprocessor core IFLs running Linux
- One 1,500 MSU System z server
- Five hundred workstations and 1,000 laptops (1,500 clients)
- One hundred network nodes

The customer desires to schedule work on its 14-way distributed server and its 24-way distributed server. Thus, the customer must obtain Processor Value Unit entitlements associated with the following number of processor cores, for its distributed environment:

Systems managed	Quantity in customer environment	Processor cores to be licensed
14-way	1	14
24-way	1	24
Total Processor Cores to be licensed		38

**Pricing examples for IBM Workload Automation (part number BJ15AML)**

IBM Workload Automation V9.2 license entitlement is based on counting the number of executed jobs.

The following example is provided to illustrate the customer's licensing requirements.

Number of daily executed jobs: 500

Number of monthly executed jobs (multiply by 31 ): 15,500

Number of groups of 10 jobs: 1,550 (divide by 10 as the part is per 10 Monthly Jobs)

List price of IBM Workload Automation for 10 jobs equals: X

List price is calculated at 1,550 job packs of 10 jobs multiplied by X.

**Note:** List price is equal to X in the above example.

### **Note on agentless scheduling**

Tivoli Workload Scheduler can manage jobs remotely, on servers where the Tivoli Workload Scheduler software is not installed. (Workload is launched on a server without any agent installed, through the method of unixssh x-agent.)

This is called agentless scheduling. Licenses are required on computers where the agentless method is managing workload.

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## **Ordering information**

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

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

For more information about IBM Software Value Plus, visit

[http://www.ibm.com/partnerworld/page/svp\\_authorized\\_portfolio](http://www.ibm.com/partnerworld/page/svp_authorized_portfolio)

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

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

Product group: Configurations and Operations

Product category: Tivoli workload scheduling

Product Identifier Description (PID)

IBM workload Automation 5725-G80

IBM Tivoli workload scheduler v9.2 5698-WSH

### **Passport Advantage customer: Media pack entitlement details**

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

Media packs description	Part number
IBM workload Automation v9.2 Media Pack MP ML	BJ15AML
IBM Tivoli workload scheduler v9.2	BJ158ML
IBM Tivoli workload scheduler zOS Agent v9.2	BJ159ML

### **New licensees**

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Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

## Basic license

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### Ordering information for Passport Advantage

Passport Advantage allows you to have a common anniversary date Software Subscription and Support (SW S&S) 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 twelve full months of Software Subscription and Support (also referred to as Software Maintenance). Software Subscription and Support in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date. Thereafter, all Software Subscription and Support (Software Maintenance) will renew at the common anniversary date for twelve full months of Software Subscription and Support (Software 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 Subscription and Support (Software Maintenance).

To order IBM Tivoli Workload Scheduler previously announced licensed part numbers for Passport Advantage, specify the desired part number and quantity.

Part number	Description
D56MTLL	Tivoli workload Scheduler PVU LIC + SW S&S 12 MO
E02AFLL	Tivoli workload Scheduler PVU ANNUAL S&S RNWL
D56MVLL	Tivoli workload Scheduler PVU SW S&S REINSTATE 12 MO
D56LZLL	Tivoli workload Scheduler Z PVU LIC + SW S&S 12 MO
E02A8LL	Tivoli workload Scheduler Z PVU ANNUAL S&S RNWL
D56MALL	Tivoli workload Scheduler Z PVU SW S&S REINSTATE 12 MO
D0C4SLL	Tivoli workload Scheduler zOS Agent PVU LIC + SW S&S 12 MO
E08D6LL	Tivoli workload Scheduler zOS Agent PVU ANNUAL S&S RNWL
D0C4TLL	Tivoli workload Scheduler zOS Agent PVU SW S&S REINSTATE 12 MO
D0C4ULL	Tivoli workload Scheduler zOS Agent Z PVU LIC + SW S&S 12 MO
E08D7LL	Tivoli workload Scheduler zOS Agent Z PVU ANNUAL S&S RNWL
D0C4VLL	Tivoli workload Scheduler zOS Agent Z PVU SW S&S REINSTATE 12 MO

To order IBM Tivoli Workload Automation previously announced licensed part numbers for Passport Advantage, specify the desired part number and quantity.

Part number	Description
D0PNZLL	IBM workload Automation per10 MonthlyJobs Lic + SW S&S 12 MO
E0DSYLL	IBM workload Automation per10 MonthlyJobs Annual SW S&S RNWL
D0PP0LL	IBM workload Automation per10 MonthlyJobs SW S&S Reinststate 12 Mo

D0TBULL	IBM workload Automation for zEnterprise BladeCenter® Extension and Linux on System z per10 MonthlyJobs Lic + SW S&S 12 Mo
E0EKFL	IBM workload Automation for zEnterprise BladeCenter Extension and Linux on System z per10 MonthlyJobs Annual SW S&S Rnw1
D0TBVLL	IBM workload Automation for zEnterprise BladeCenter Extension and Linux on System z per10 MonthlyJobs SW S&S Reinstate 12 Mo

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

Part number	Description
BJ158ML	IBM Tivoli workload Scheduler V9.2
BJ159ML	IBM Tivoli workload Scheduler zOS Agent V9.2
BJ15AML	IBM workload Automation V9.2 Media Pack MP ML

IBM Tivoli Workload Scheduler V9.2 and IBM Workload Automation V9.2 are also available, via web download, from Passport Advantage.

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

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### ***License Information number***

Program name	Form/Part number
IBM Tivoli workload Scheduler V9.2	GC23-4480-07

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

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

***Limited warranty applies***

Yes

***Limited warranty***

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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.

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***Other terms***

***Volume orders (IVO)***

No

***IBM International Passport Advantage Agreement***

***Passport Advantage applies***

Yes, and through the Passport Advantage website at

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***Software Subscription and Support applies***

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***System i® Software Maintenance applies***

No

***Variable charges apply***

No

***Educational allowance available***

Not applicable.

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## **Statement of good security practices**

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

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## **IBM Electronic Services**

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

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

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

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

## Benefits

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**Increased uptime:** The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the symptoms, diagnosing the error, and manually calling IBM Support to open a problem record. Its 24x7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

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

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## Prices

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Information on charges is available at website

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

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For questions regarding Software Value Plus, visit

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