Selected IBM Tivoli products add part numbers for Linux on System z

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Overview

IBM® continues to expand the breadth of Tivoli® solutions available for Linux® on System z®. Linux on System z orderable part numbers are being added to the following products:

- IBM Tivoli Access Manager for e-business V6.1
- IBM Tivoli Federated Identity Manager V6.2
- IBM Tivoli Federated Identity Manager Business Gateway V6.2
- IBM Tivoli Access Manager for Enterprise Single Sign-On V8.0
- IBM Tivoli Unified Single Sign-On V1.0
- IBM Tivoli Security Policy Manager V7.0
- IBM Tivoli Identity and Access Assurance V1.0
- IBM Tivoli Data and Application Security V1.0

Key prerequisites

Refer to the Reference information section of this announcement.

Planned availability date

August 7, 2009: Electronic availability only

Description

For detailed information about these products, refer to the Reference information section.

Reference information

Refer to:
Software Announcement ZP08-0192, dated April 08, 2008, IBM Tivoli Access Manager for e-business V6.1
Software Announcement ZP08-0278, dated June 17, 2008, IBM Tivoli Federated Identity Manager V6.2 (and IBM Tivoli Federated Identity Manager Business Gateway V6.2)
Software Announcement ZP08-0375, dated August 26, 2008, IBM Tivoli Access Manager for Enterprise Single Sign-On V8.0
Software Announcement ZP08-0492, dated October 14, 2008, IBM Tivoli Unified Single Sign-On V1.0
Software Announcement ZP08-0525, dated November 25, 2008, IBM Tivoli Security Policy Manager V7.0
Software Announcement ZP09-0148, dated April 21, 2009, IBM Tivoli Data and Application Security V1.0
Software Announcement ZP09-0149, dated April 21, 2009, IBM Tivoli Identity and Access Assurance V1.0

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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


Offering Information

Product information is available via the Offering Information Web site

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

Also, visit the Passport Advantage® Web site

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

Publications

Refer to the Reference information section for more information on the publications shipped with the programs in this announcement.

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.

Technical information

Specified operating environment

Hardware requirements
Refer to the Reference information section for complete hardware requirements for each of the programs in this announcement.

Software requirements
Refer to the Reference information section for complete software requirements for each of the programs in this announcement. Refer to the individual product announcements for details on which components of the products run on Linux for System z.

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.

Planning information

Packaging
The programs in this announcement are distributed with:

- International Program License Agreement (Z125-3301)
- License Information document
- CD or DVD
- 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

The programs 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.

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.
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

**Authorized user**

An authorized user is one and only one individual (named or unnamed) within or outside your enterprise. A PoE must be obtained for each individual user accessing the program in any manner. A program licensed under an authorized user PoE may be installed on a single computer or server, and accessed by multiple
users, provided that a PoE has been obtained for each individual user accessing the program either directly or indirectly (via a multiplexing program, device, or application server) through any means on behalf of the user.

Note that authorized users have unique specific identity and IDs cannot be shared. An ID can establish one or more connections and count as a single authorized user. Specific information to security products:

- An authorized user of IBM Tivoli Federated Identity Manager is any ID that accesses an application or service managed or protected by IBM Tivoli Federated Identity Manager.
- An authorized user of IBM Tivoli Directory Integrator is one whose identity can be synchronized by IBM Tivoli Directory Integrator or that can access a connected system that can be synchronized by IBM Tivoli Directory Integrator.
- An authorized user of IBM Tivoli Identity Manager is any ID whose identity is recorded in the Tivoli Identity Manager identity store.
- An authorized user of IBM Tivoli Access Manager for e-business is any ID that accesses an application or service managed or protected by IBM Tivoli Access Manager for e-business.

**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-sale terminals, tills and cash registers, and kiosks.

**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 ICF engines.

**Enterprise**

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

**External user**

An external user is an authorized user who is not part of the enterprise.

**IBM 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 and applications. There is, as indicated, a charge associated with the IFL, and there may also be a charge for applications which 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 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.
**IBM Tivoli Directory Integrator connected system**

A connected system is any directory, database, application, or file integrated or merged by IBM Tivoli Directory Integrator.

**IBM Tivoli Storage Manager HSM for Windows terabyte (TB) capacity**

IBM Tivoli Storage Manager HSM for Windows TB capacity includes primary HSM disk storage pool size combined with the amount of utilized HSM removable media storage pool. Storage pools are configured on the IBM Tivoli Storage Manager server.

IBM System Storage™ Archive Manager TB capacity

IBM System Storage Archive Manager TB capacity includes primary disk storage pool size combined with the amount of utilized primary removable media storage used by the IBM System Storage Archive Manager server.

Capacity does not include:

- Copy storage pools for the space-managed data that reside on disk.
- Copy storage pools for the space-managed data that reside on removable media.
- Space used on the IBM Tivoli Storage Manager server for any purpose other than the primary storage of space-managed data.
- Disk on the host being space managed.

A virtual tape library (VTL) is considered a removable media device, so capacity is based on utilization.

The minimum amount of capacity that can be purchased is 1 TB.

Partial capacity will be rounded up to the next whole number of TB.

Additional capacity must be added in increments of 1 TB.

**IBM TotalStorage® Productivity Center TB capacity**

A TB capacity is each individual TB of storage capacity managed by the IBM TotalStorage Productivity Center products. Managed capacity for the IBM TotalStorage Productivity Center for Replication and IBM TotalStorage Productivity Center for Replication Two Site BC is defined as the source device capacity. Only the source device capacity is included in this pricing definition (not the target device).

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

Managed processor 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 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 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 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:

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

**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, visit


**Network node or node**

Network nodes include routers, switches, hubs, and bridges that contain a network management agent. A single network node may contain any number of interfaces or ports.

**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.

**Port**

A port is the physical connection between a device and the network.

**Processor (per processor charging under full capacity)**

In full capacity charging, PoEs 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 which 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

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

**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.

**Terabyte (T/TB)**
1 TB of managed storage = 2 to the power of 40 bytes = 1,099,511,627,776 bytes, trillion bytes.

**Tivoli Management Points**

A Tivoli Management Point is a metric used to compute license quantities and is program specific.

**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 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**

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 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 (processor and non-processor based)

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 for all the programs in this announcement utilizes pricing metrics and scalable usage models described in each product's respective announcements:

- Software Announcement ZP08-0192, dated April 08, 2008, IBM Tivoli Access Manager for e-business V6.1
- Software Announcement ZP08-0278, dated June 17, 2008, IBM Tivoli Federated Identity Manager V6.2 (and IBM Tivoli Federated Identity Manager Business Gateway V6.2)
- Software Announcement ZP08-0375, dated August 26, 2008, IBM Tivoli Access Manager for Enterprise Single Sign-On V8.0
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- Software Announcement ZP09-0149, dated April 21, 2009, IBM Tivoli Identity and Access Assurance V1.0
**Ordering information**

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

**Product group: Tivoli**

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**Product category: Tivoli security**

For ordering information, consult your IBM representative or authorized IBM Business Partner, or visit


**Current licensees**

**New licensees**

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

**Basic license**

**Ordering information for 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 twelve 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 twelve 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 required number of Processor Value Units, Resource Value Units, User Value Units, Server, Install, Single Partner, and Non-production. To order for Passport Advantage, specify the desired part number and quantity.

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Note: Linux for System z platform support is included in the existing media packs for the programs in this announcement. For ordering information, refer to the Reference information section.
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