IBM®

IBM Tivoli Federated Identity Manager helps business entities to collaborate securely

Overview

Federated identity management provides a simple, loosely-coupled model for managing identity and access to resources that span companies or security domains. Rather than replicate identity and security administration at both companies, federated identity management provides a simple model for managing identities and providing them with access to information and services in a trusted fashion.

For companies deploying SOA and Web Services, federated identity management provides policy-based integrated security management for federated Web Services. The foundation of federated identity management is trust, integrity, and privacy of data.

Through this foundation of trust, integrity, and privacy, organizations can share identity and policy data about users and services versus replication identities and security policies locally. The sharing of trusted identities and policies is the key to delivering a richer experience for users navigating between federation sites. Trust enables companies to loosely couple their disparate identity management systems.

A federated model simplifies administration and enables companies to extend identity and access management to third-party users and third-party services

Key prerequisites

Refer to the **Hardware requirements** and **Software requirements** sections.

Planned availability dates

- May 6, 2005 (electronic software delivery)

- May 27, 2005 (media and documentation)

At a glance

Companies that choose to collaborate in identity-based business processes may benefit from the ability of IBM Tivoli® Federated Identity Manager (FIM) to help:

- Simplify integration between companies and their partners' Web sites, including simplified session management

- Improve business compliance by helping to reduce security exposure

- Improve end-user experience through Single Sign On (SSO)

- Expand business reach of service providers creating revenue generating opportunities

- Simplify administration of security in cross-enterprise business processes by delivering "security as services"

- Deliver policy-based integrated security management for SOA Web Services

- Support for open standards and specifications including Liberty, SAML, WS-Federation, WS-Security and WS-Trust

Description

FIM roles

In a federated identity management scenario, organizations assume the role of an identity provider or a service provider. These roles are not mutually exclusive. Many large organizations will assume the role of both identity provider and service provider.

An identity provider is an organization that directly manages end users. An identity provider is the authoritative source for issuing and validating user identities and network credentials for a set of users; an identity provider "owns the user relationship". For example, many companies act as identity providers for employees, customers, and contractors. Identity providers "vouch" (authentication authority) for the user identity and their entitlements in a federated interaction with service providers.

A service provider provides "services" for end users. They typically do not have a vested business interest in managing the user. Service providers act as a "relying party" to validate credentials issued by a trusted identity partner, on the basis of which they provide services to that trusted identity.

In a SOA environment the following additional roles apply:

A Web Services requester is a service client that needs to access a service provider. A Web Services requester may be a MS.NET application or a Java™ or WebSphere® application.

A Web Services provider is a service provider that provides a "service" or a component. A Web service provider could be a MS.NET Application or a Java or WebSphere application. Web Service Providers need to identified, authenticated by service clients.

Within a SOA environment, there needs to an infrastructure service that simplifies the management of security polices for these various service clients and service providers.

FIM benefits

Managing identities for third-party users can be a manual, cumbersome, and costly proposition that depletes critical IT resources. Rather than having to enroll third-party users into a company's internal identity systems, FIM enables IT service providers to offload the cost of user administration to their business partner companies. Since the business partner company acts like an identity provider, the service provider does not have to take on the burden of user administration costs such as user enrollment, account management, password management, password reset, help desk, or customer care costs.

The end user calls their identity provider for all their user access management issues so the service provider has effectively offloaded user identity administration to their partner. For a service provider that is in the business of delivering business-to-business (B2Bs), or business-to-enterprise (B2Es) services, the savings from simplified administration and client support costs can be substantial.

Simplified integration: Integration is simplified because there is a common way to share identities between companies and manage user sessions. FIM facilitates "straight through processing" techniques because the identity provider does not have to replicate or stage business processes on behalf of a service provider. Where an employee identity provider typically collects and manages data from employees only to "pass through" this information to service providers with federation, an employer can directly have the user access the service provider (straight through processing) and interact with the provider's business processes.

In addition, by employing Tivoli Access Manager for e-business (included with FIM), FIM is able to provide integrated session management, significantly facilitating inter-company transactions. With a federated identity model, identity providers have an opportunity to streamline inter-company transactions which can reduce costs and simplify integration.

Helps to improve business compliance: Taking on user account management responsibilities also entails new challenges in protecting the integrity, confidentiality, and security of customer or user data and ensuring its use for authorized purposes only. Because FIM does not replicate user accounts, a provider uses the business partner company's trusted identity assertion to deliver access to a provider's IT services.

Helps to improve user experience: Single Sign On (SSO) simplifies sign on for third-party users who typically have a primary relationship with their home organization. A federated business model enables a company to obtain trusted information about a third-party identity (such as customer, supplier, or a client employee) from that user's home organization without having to create, enroll, or manage a new account.

This federation approach can spare the user from another login and password. The user can instead access the business Web site using the identity issued by their home organization. The user experience can be improved because users can navigate easily between Web sites while maintaining a single login identity. FIM introduces new concepts such as "account linking" that enables end-users to link their otherwise separate accounts across multiple providers into a single account for the purpose of single sign-on. This approach helps simplify user access to multiple Web sites without having to remember or write down multiple passwords.

The product supports a number of SSO federated identity and Web Services security standards including Liberty Alliance specifications, SAML, WS-Federation, WS-Security, and WS-Trust. This enables the company or the provider to interoperate and get SSO benefits from partners who implement any of these standards. In addition, support for WS-Security and WS-Security in the same package enables companies to integrate identity federation standards such as Liberty with Web Services security standards to enable enterprise and federated users to securely access remote Web Services.

Potential for expanded business reach: Perhaps the biggest potential impact of federated identity management is that service providers can expand their market reach by being able to access large established pools of identities. With FIM, referrals from business partners can be made simpler, and the hurdles required to sign-on a new user can be reduced, leading to opportunities to more quickly expand the customer base and potentially generate greater revenue. For example, a financial services provider can potentially drive both organic and acquisitive growth by federating their services with large identity providers.

Partner lifecycle management enables the federation administrator to configure business partners into a federation. A wizard on the FIM console can be used to enroll a business partner to configure the business partner's role within the federation. Business partners

can be configured into an identity provider role or a service provider role with the appropriate security credentials and federation profiles supported for a business partner include Liberty Alliance specifications, WS-Federation, and Security Assertions Markup Language (SAML). Successful enrollment of a business partner into a federation enables the federation end points to accept and service federation requests from that business partner domain.

User lifecycle management refers to the set of capabilities that help business partners in a federation to simplify user administration access control management among their autonomous identity management solutions. These capabilities include being able to:

- Leverage the trust with federation business partners to provide access to local resources without having to manage local user accounts.

- Build a custom registration process to automate the enrollment of third-party users (for example, users that are managed by a partner organization and grant them access rights.

- Automate the provisioning of a local identity/login account for a third-party user in cases where the user has accounts which must be replicated.

- Link or federate user accounts at the identity provider and the service provider.

- "De-federate" or de-link accounts when federated relationships are terminated.

- De-provision user accounts or entitlements for third-party users when a federated account is deactivated.

FIM uses IBM′s Integrated Solutions Console (ISC) (included with FIM) to provide an intuitive Web-based administrative console that combines FIM′s services into one location. These services include:

- Infrastructure Services
- Trust Service
- Identity Transformation Service
- Single Sign-on Protocol Service
- Provisioning Service
- Security Token Service
- Federated Identity Services

FIM also includes IBM Tivoli Access Manager for e-business V5.1, IBM Tivoli Directory Integrator V6.0, and WebSphere Application Server Network Deployment V6.0.

Section 508 of the U.S. Rehabilitation Act

IBM Tivoli FIM is capable as of May 27, 2005, 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.

Trademarks

Tivoli and WebSphere are registered trademarks of International Business Machines Corporation in the United States or other countries or both.
Java is a trademark of Sun Microsystems, Inc.
Other company, product, and service names may be trademarks or service marks of others.
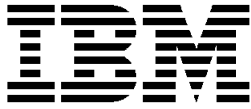
Offering Information

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

The following English and national language publications may be downloaded at planned general availability from the following Web site

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

National language publications be may be downloaded 60 days after planned general availability from the same Web site.

English

- Release Notes (GC32-1669-00)
- Installation Guide (GC32-1667-00)
- Administration Guide (GC32-1668-00)
- Read This First (GC32-1770-00)

No publications are shipped with this product.

The IBM Publications Center

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

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 50 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries free of charge.

The IBM Publications Notification System (PNS)

http://service5.boulder.ibm.com/pnsrege.nsf/ messages/welcome

PNS enables subscribers to set up profiles of interest by order number/product number. PNS subscribers automatically receive e-mail notifications of all new publications defined in their profiles. These may then be ordered/downloaded from the Publications Center.

The PNS site is available in English and Canadian French.

Technical information

Hardware requirements: Minimum/recommended processor, disk space, and memory requirements for IBM Tivoli® FIM V6.0 follow:

	Minimum	Recommended
Processor	300 MHz	400 MHz
Disk Space excluding WebSphere®, Web server, or Web browser	1 GB	1.5 GB
Memory excluding WebSphere, Web server, or Web browser	1 GB	1.5 GB

Software requirements: Tivoli FIM V6.0 supports the following:

Servers

- AIX® (32-bit) V5.2 and V5.3
- Sun Solaris 8 and 9
- Microsoft™ Windows™ 2000 Server and Advanced Server with SP3
- Microsoft Windows 2003 Standard Server and Enterprise Server
- Red Hat Linux™ Server Linux 2.1
- Red Hat Linux Advanced Server 3.0 and fixpack 3
- Red Hat Linux Advanced Server 3.0 for zSeries®
- SUSE LINUX Enterprise Server 8 for IBM @server® xSeries® (31-bit native and 31-bit compatibility mode in 64-bit native)
- SUSE LINUX Enterprise Server 8 for IBM @server® zSeries (31-bit native and 31-bit compatibility mode in 64-bit native)
- SUSE LINUX Enterprise Server 9 for IBM eServer® xSeries (31-bit native and 31-bit compatibility mode in 64-bit native)
- SUSE LINUX Enterprise Server 9 for IBM eServer zSeries (31-bit native and 31-bit compatibility mode in 64-bit native)

Consoles

- AIX (32-bit) V5.1, V5L, and V5.2
- Sun Solaris 8
- Windows XP Pro + SP1®
- Microsoft Windows 2000 Server and Advanced Server with SP4

- Microsoft Windows 2003 Server and Enterprise Server

- Red Hat Linux Advanced Server 3.3

- SUSE LINUX Enterprise Server 8 for IBM eServer xSeries (31-bit native and 31-bit compatibility mode in 64-bit native)

- SUSE LINUX Enterprise Server 8 for IBM eServer zSeries (31-bit native and 31-bit compatibility mode in 64-bit native)

Included with the program package for use restricted to Tivoli FIM V6.0 are:

- IBM Integrated Solutions Console V5.1 component

- WebSphere Application Server Network Deployment 6.0

- IBM Tivoli Directory Integrator V6.0 (which also includes IBM Tivoli Directory Server V5.2)

- IBM Tivoli Access Manager for e-business V5.1

Planning information

Installability: Software Maintenance, previously referred to as Software Subscription and Technical Support, is included in the Passport Advantage Agreement. Installation and technical support is provided by the Software Maintenance offering of the IBM International Passport Advantage Agreement. This fee service enhances customer productivity, with voice and electronic access into IBM support organizations.

Packaging: IBM Tivoli FIM V6.0 is distributed with:

- International Program License Agreement (Z125-3301)
- License Information document
- 76 CD-ROMs
- Publications (refer to the **Publications** section)

Security, auditability, and control

IBM Tivoli FIM uses the security and auditability features of the operating system software.

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

IBM Tivoli Enhanced Value-based Pricing terminology

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 IBM 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's pSeries® 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 IBM 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 for each IBM Tivoli application managing 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/UNIX® and Microsoft Windows/Intel™ technologies, in order to simplify the customer's licensing requirements, and to provide a smoother, more scalable model. Pricing and licensing does not differentiate between non-zSeries server platforms or operating systems. For some products, this platform neutrality extends to zSeries and other host servers as well.

Scalable usage model table

The following scalable usage table is used to determine the required value units per 1000 users.

Scalable Usage Level	1	2	3	4	5
Users	1 5K	5K 15K	15K 50K	50K 150K	150K 500K
Value Units per 1,000 users	700	200	175	120	110

Scalable Usage Level	6	7	8	9	10
Users	500,001 1M	1M 3M	3M 10M	10M 20M	20M+
Value Units per 1,000 users	30	25	15	10	5

IBM Tivoli Enhanced Value-based Pricing terminology definitions

Enterprise

A person or single entity and the subsidiaries owned by more than 50 percent.

Registered user for IBM Tivoli FIM

A registered user for IBM Tivoli FIBM is any individual, machine, program, or device that accesses an application or service managed or protected by IBM Tivoli FIM.

Processor

A processor is a functional unit in a computer that interprets and executes instructions. A processor consists of at least an instruction control unit and an arithmetic and logic unit.

Server

A server is a computer system that provides services to one or more clients or other devices over a network. Examples include file servers, print servers, mail servers, database servers, application servers, and Web servers.

Refer to the License Information documents for product-specific extensions to this basic definition. These documents are packaged with all IBM Tivoli products and are also available from

http://www.ibm.com/software/sla/sladb.nsf/ sla/browse

Product Web site

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

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

Passport Advantage: Through the Passport Advantage Agreement, customers 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 Tivoli product configuration under Passport Advantage, the 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 the customer environment to determine the number of Tivoli Management Points or other charge unit for a product. The quantity of each product's part numbers to be ordered is determined 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 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 Tivoli product part number. The sum of these Passport Advantage points determines the "Passport Advantage point value" of the applicable 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 Web site

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.

- Custom Build Registration — This is used with products that have an IBM zSeries component. Ordering this part number results in a process to enable the customer to receive the zSeries code via the z/OS® Customized Offerings packaging techniques, that is, ServerPac, SystemPac®, or the Custom Build Product Delivery Option (CBPDO).

Exceptions to the Environment-Managed Licensing Model : IBM Tivoli products are priced based on the Environment-Managed Licensing Model and follow the definitions laid out in the Definitions section of this announcement, with the following exceptions:

- IBM Tivoli FIM

  Count either the number of registered users or the number of processors in the servers in which IBM Tivoli FIM, but not both.

Pricing examples

Scenario 1: User-based pricing

Transaction 1

Enterprise ABC initially wants to work with the following user configuration:

- 2,000 employees of ABC who access Web applications from HTTP and J2EE application servers. These users access services on Enterprise ABC's portal and may use the ABC portal to access third-party Web Applications.

- 10,000 internet users whose accounts are stored in the Enterprise's IBM Directory Server. These users access services on Enterprise ABC's portal and may use the ABC portal to access third-party Web Applications.

Total registered users required are 12,000.

Pricing metric	Quantity in customer environment(A)	Value Units per 1,000 users(B)	Value Units required ((A)(1) (B))/1,000
Tivoli FIM			
Tier 1	5,000	700	3,500
Tier 2	7,000	200	1,400
		Total value units	4,900

Transaction 2

After the initial purchase, Enterprise ABC wants to secure access for an additional 113,000 third-party users. These third-party users sign on to their own company portal and use their company's portal to access ABC's portal. Enterprise ABC does not maintain local accounts and passwords for these third-party users to sign on directly to ABC's portal.

Total registered users increases by 113,000 to 125,000

Pricing metric	Quantity in customer environment(A)	Value Units per 1,000 users(B)	Value Units required ((A)(1) (B))/1,000
Tivoli FIM			
Tier 1	5,000	700	3,500
Tier 2	10,000	200	2,000
Tier 3	35,000	175	6,125
Tier 4	75,000	120	9,000
	125,000	Total value units	20,625
	12,000	Less currently licensed from Transaction 1	(4,900)
	113,000	Additional value units required	15,725

Scenario 2: Processor-based pricing with unlimited users within processor count

Assume Enterprise ABC prefers unlimited user access for their environment and has the following configuration:

- Two 2-way servers running WebSEAL
- One 4-way server running the Policy Server and Authorization Server
- One 6-way server running FIM

The customer will require the following licensing:

IBM Tivoli FIM — Unlimited User Option

Tivoli FIM Server	Quantity in customer environment	Total processors required
2 way	2	4
4 way	1	4
6 way	1	6
	Total processors	14(1)

Notes: The Unlimited User Option applies only to the 14 processors licensed. If the customer moved FIM from a 6-way to an 8-way server, an additional 2 processors would be required.

[1] There is a minimum order quantity of 14 processors for the IBM Tivoli FIM Unlimited User Option.

Processors are only counted once under the FIM license. If the Policy server and the Authorization server run on the same processors, they are only counted once.

Scenario 3: Customer XYZ currently owns 17,625 value units (100,000 users) of IBM Tivoli Access Manager for e-business. The customer can take their existing entitlement of IBM Tivoli Access Manager for e-business and trade it in for 100,000 registered users of IBM Tivoli FIM using the announced trade-up part number.

Ordering information

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

Product information

Licensed function title	Product group	Product category
Tivoli FIM Value Units per User	Tivoli Security	Tivoli FIM
Tivoli FIM UUO Processor	Tivoli Security	Tivoli FIM

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.

IBM Tivoli FIM V6.0.0

Entitled maintenance offerings description	Media packs description	Part number
Tivoli FIM processor	FIM Multilingual (English International, French, Russian, Arabic, Korean, Chinese — Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese — Traditional, Hungarian, Czech, Italian, Polish) AIX V4.x, Linux for zSeries Enterprise Servers (Mainframes), AIX V5.x, Other, Linux for x86Series Intel-based servers CD-ROM Digital Disk — ISO 9660 Standard	BJ0EYML
Tivoli FIM Value Unit	Federated Identity Manager Multilingual (English International, French, Russian, Arabic, Korean, Chinese — Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese — Traditional, Hungarian, Czech, Italian, Polish) AIX V4.x, Linux for zSeries Enterprise Servers (Mainframes), AIX V5.x, Other, Linux for x86Series Intel-based servers CD-ROM Digital Disk — ISO 9660 Standard	BJ0EYML
Tivoli FIM Processor for Linux on zSeries	Federated Identity Manager Multilingual (English International, French, Russian, Arabic, Korean, Chinese — Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese — Traditional, Hungarian, Czech, Italian, Polish) AIX V4.x, Linux for zSeries Enterprise Servers (Mainframes), AIX V5.x, Other, Linux for x86Series Intel-based servers CD-ROM Digital Disk — ISO 9660 Standard	BJ0EYML

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

Shipment will begin on the planned availability date.

License transferability: Charge units are product specific and may not be transferred to another product.

Note: There is no transferability in licensing between platforms for end-to-end products where pricing on the IBM eServer zSeries platform is based on MSUs and pricing on other platform servers is per processor.

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 maintenance coverage. 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 and include twelve full months of maintenance.

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

The quantity to be specified for the Passport Advantage part numbers in the following table is per processor and per client. The client is based on value units. To order for Passport Advantage, specify the desired part number and quantity.

Passport Advantage program licenses

Part description	Part number
IBM Tivoli FIM	
Tivoli FIM Value Units per User	
FIM Value Units License & SW Maintenance 12 months	D54YHLL
FIM Value Units SW Maintenance Annual Renewal	E01RCLL
FIBM Value Units SW Maintenance Reinstatement 12 months	D54YILL
FIM Value Units Trade Up Lic & SW Maintenance 12 months	D54YJLL
IBM Tivoli FIM	
Tivoli FIM UUO Processor	
FIM Processor License & SW Maintenance 12 months	D54YKLL
FIM Processors SW Maintenance Annual Renewal	E01RGLL
FIM Processor SW Maintenance Reinstatement 12 months	D54YLLL
FIM per Processor Trade-up License & SW Maintenance 12 months	D54YMLL
FIM Linux on zSeries License & SW Maintenance 12 months	D54ZALL

Part description	Part number
FIM Processor Linux on zSeries SW Maintenance Reinstatement 12 months	D54ZBLL
FIM Processor Linux on zSeries SW Maintenance Annual Renewal	E01RJLL

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

Part description	Part number
FIM V6.0.0 CD-ROM CD-ROM Digital Disk — ISO 9660 Standard	BJ0EYML

IBM Tivoli FIM is also available via Web download from Passport Advantage.

Terms and conditions

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

Agreement: IBM International Program License Agreement. Proofs of Entitlement are required for all authorized use.

Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

This software license includes Software Maintenance, previously referred to as Software Subscription and Technical Support.

License information form numbers

Program name	Program number	Form number
Tivoli FIM	5724 L73	L NSTL 6A5S8B

Limited warranty: Yes

Warranty: This program has warranty for a minimum of one year from acquisition from IBM or authorized IBM Business Partner. The warranty provided to the customer, for at least one year from acquisition, is access to databases (read Web sites) for program information and FAQs, including any known fixes to defects, which the customer can download or obtain otherwise and install at leisure.

Money-back guarantee: If for any reason you are dissatisfied with the program, return it within 30 days from the invoice date to the party (either IBM or its reseller) from whom you acquired it for a refund. This applies only to your first acquisition of the program.

Copy and use on home/portable computer: No

Volume orders (IVO): No

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

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

Software maintenance applies: Yes

Software Maintenance, previously referred to as Software Subscription and Technical Support, is included in the Passport Advantage Agreement. Installation and technical support is provided by the Software Maintenance offering of the IBM International Passport Advantage Agreement. This fee service enhances customer productivity, with voice and electronic access into IBM support organizations.

IBM includes one year of Software Maintenance with the initial license acquisition of each program acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option that is available.

While your Software Maintenance is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions; and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, consult your IBM Software Support Guide at

http://techsupport.services.ibm.com/guides/ handbook.html

Software Maintenance does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under this agreement.

For more information about the Passport Advantage Agreement, visit the Passport Advantage Web site at

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

Complimentary products: IBM provides licensed copies of complimentary products in our product boxes. The complimentary products are not upgradeable through the originally ordered product. They are only upgradeable separately as individual products. If a fully licensed product is required, contact IBM or your reseller. In addition, complimentary products do not entitle customers to receive service support.

iSeries*™ *Software Maintenance applies: No

Educational allowance available: Not applicable

Prices

To order, contact the Americas Call Centers, your local IBM representative, or your IBM Business Partner.

To identify your local IBM Business Partner or IBM representative, call 800-IBM-4YOU (426-4968).

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner. Additional information is also available at

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