



# IBM Tivoli Identity Manager V5.1 update helps organizations simplify the design and implementation of role and access structure across the enterprise

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## At a glance

IBM® Tivoli® Identity Manager V5.1 helps you simplify and reduce cost of administration:

- Role hierarchy enables the use of an enterprise role structure to automatically remediate user access by leveraging inheritance within and across business and application roles.
- Group management helps streamline the ability to administer user access natively within Tivoli Identity Manager without reliance on native application owners to add, modify, and delete groups.
- Bulk user recertification of user access allows for managers to quickly make a yes/no decision on user access by certifying roles, accounts, and groups all at once.
- Role modeling and mining helps facilitate the quick building of an effective role and access structure from a business centric approach.
- Role lifecycle management can streamline the role structure approval process, helps reduce errors, and provides accountability when validating access with the business.

IBM Tivoli Identity Manager V5.1 update helps you enhance security and compliance:

- Preventative separation of duties provides the creation, modification, and deletion of policies that manage business conflict by excluding users from having membership to multiple roles.
- User recertification of roles facilitates compliance by helping ensure the ongoing validation of user access and the automatic revocation of access if necessary.

For ordering, contact Your IBM representative or an IBM Business Partner.  
For more information contact the Americas Call Centers at  
800-IBM-CALL (426-2255).

Reference: YE001

## Overview

IBM Tivoli Identity Manager V5.1 is an automated and policy-based solution that manages user access across IT environments. Through the use of roles,

accounts, and access permissions, it helps automate the creation, modification, and termination of user privileges throughout the entire user lifecycle.

Tivoli Identity Manager can help increase user efficiency, reduce IT administration costs, enforce security, and manage compliance. It does this with centralized user self-service, delegated administration, automated approvals processing, periodic revalidation of user access rights, documentation of controls, role mining, and role lifecycle management.

Role management functionality helps you bridge the gap between how business users view their IT resources and the actual IT implementation of user access rights. This helps you to simplify and reduce the cost associated with administering user access rights, offers you a set of additional controls to manage internal security, and enables you to scale existing user provisioning deployments across the enterprise.

IBM Tivoli Identity Manager V5.1 key features:

- **Role hierarchy** helps to simplify and reduce the cost of user administration by enabling the use of an enterprise role structure. Role hierarchy provides the ability to establish parent/member role relationships that deliver the notion of inheritance between roles to be directly applied to policies governing user access within IBM Tivoli Identity Manager. A hierarchical role structure used to manage user access not only helps reduce the number of objects required for administration, but it also can provide improved visibility of user access.
- **Separation of duties** can strengthen security and compliance by creating, modifying, or deleting policies that exclude users from membership to multiple roles that may present a business conflict (for example, a user in an accounts receivable role cannot have the accounts payable role). This preventative approach can deter violations from occurring in the first place.
- **User recertification** enhancements help simplify the attestation process while expanding the means to manage compliance. Recertification of a user's roles (new), accounts, and groups in bulk fashion enables managers to make yes/no decisions on a user's access rights in a single submission.
- **Group management** helps simplify and reduce the cost of user administration by offering the ability to add, remove, or change the attributes of a group entity within the Tivoli Identity Manager console.

IBM Tivoli Identity Manager V5.1 update:

- **Role mining and lifecycle management**, provided by the IBM Security Role and Policy Modeler component, helps reduce time and effort to design a role and access structure for the enterprise, and automates the process to validate the access information and role structure with the business owners.

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## Key prerequisites

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

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## Planned availability date

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October 28, 2011 for electronic availability

November 18, 2011 for media availability

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## Description

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IBM Tivoli Identity Manager V5.1 is an automated and policy-based solution that manages user access across IT environments. Through the use of roles, accounts, and access permissions, it helps automate the creation, modification, and termination of user privileges throughout the entire user lifecycle.

Tivoli Identity Manager can help increase user efficiency, reduce IT administration costs, enforce security, and manage compliance. It does this with centralized user self-service, delegated administration, automated approvals processing, periodic revalidation of user access rights, documentation of controls, role mining, and role lifecycle management.

The introduction of operational role management functionality into Tivoli Identity Manager helps you bridge the gap between how business users view their IT resources and the actual IT implementation of user access rights. This helps you to simplify and reduce the cost of administering user access rights, offers you a set of additional controls to manage internal security, and enables you to scale existing user provisioning deployments across the enterprise.

Tivoli Identity Manager provides automated audit readiness with fine-grained access rights recertification, additional prebuilt reports, a custom report builder, direct auditor access to reports, and mapping of low-level IT entitlements into business-friendly descriptions of what a user can actually do with access.

Tivoli Identity Manager's innovative administrative console can help reduce the learning curve of new and occasional users, while helping improve the efficiency of power users and administrators.

Tivoli Identity Manager also provides:

- A highly customizable self-service user interface that can be easily modified to match intranet and extranet portal look and feel
- A mapping of low-level IT entitlements into business-friendly descriptions of what users can actually do with their access.
- Password self-service reset to help improve user productivity and reduce help desk costs.
- Access request management that delivers a quick-start option to streamline user provisioning and offers users the opportunity to manage their role membership, access rights, passwords, personal information, and approval tasks.
- A dynamic policy management engine that automates user provisioning and aids in compliance efforts.
- Access rights reconciliation, recertification, and reporting to address audit requirements.
- Broad support for system adapters to accelerate installation of new applications.
- Scalable, fault tolerant, and internalized architecture.
- A powerful workflow and policy engine that can be configured in either "simple" or "advanced" mode
- A new flexible and powerful role modeling and mining platform with the IBM Security Role and Policy Modeler, which adds data gathering, analysis of patterns, an IBM Research based Role Mining algorithm, ease of use, scalability, visualization techniques, and scoring metrics that facilitates the interaction with the business users to produce a more effective role and access structure. The proposed role structure can be managed throughout its lifecycle with a workflow for business process automation.

Key features in IBM Tivoli Identity Manager V5.1

### **Role hierarchy**

- Establish parent/member role relationship and apply inheritance of user access rights between roles.
- Parent roles can have multiple members (for example, "physician" is the parent role and "cardiologist" or "R" or "radiologist" is the member role).
- Member roles can have multiple parents (for example, "cardiologist" is the member role and "physician" or "healthcare practitioner" is the parent role).
- Inheritance includes inheriting workflow authority and provisioning policies.

## **Role administration**

- Role classification adds the ability to add a classifier such as business role or application role to a role when it is created or modified.
- Role membership adds the ability to add or remove roles as members to other roles. It provides an efficient means to grant or remove access rights to descendants of the roles.

## **Separation of duties**

- Establish preventative policies that can manage business conflicts by excluding user membership to multiple roles.
- Allow for policy exceptions by offering an approval workflow to be designed so that proper business justification can be recorded authorizing the exception.

## **User recertification**

- Holistic recertification of a user's roles, account, and groups in bulk fashion.
- Manager can make yes/no decisions on a user's access rights in a single submission.
- Managers can preview the impact of the user recertification prior to submission and see if any roles, accounts, or groups are affected by the access decision being made.

## **Group management**

- Administrator can add, modify and delete the attributes of a group entity from the Tivoli Identity Manager console.
  - Currently supported adapters for this feature include LDAP, Microsoft® Active Directory, UNIX® (AIX®, HP-UX and Solaris) and Linux® (RHEL and SUSE).
  - Nesting is supported for those targets that support nesting.

New features in IBM Tivoli Identity Manager V5.1 update

## **New role modeling and Mining**

- File-based data import (business and technical data) that collects user attributes, roles, accounts, and entitlements from a wide set of identity repositories using a common standard interface (CSV based). Can leverage Tivoli Directory Integrator adapters to easily transform source access data to a common format for modeling.
- A business centric design can facilitate business end-user modeling exercise, including capabilities such as a web-based UI based on the Tivoli Integrated Portal (TIP), business context awareness, operation feedback, and progress boards. The business user can organize and handle scale for modeling using a "project" based approach, that scopes subsets of the access data for easier model management.
- A solid role modeling environment catalyzes the role engineering process (bottom-up or top-down approaches) by leveraging an extensible schema for roles, identities, and permissions, a sandbox for engineering roles graphically or in tabular form, a separation of duties policy simulation engine, an automated IBM Research based role mining tool, and an analytics tools catalog.
- A robust reporting toolset to present valuable results and insights for the business with out-of-the-box common role and policy modeling analysis reports, and customizable reporting capabilities to guide modeling.

## **New role lifecycle management**

- A business process automation environment that offers a flexible platform to automate most common role structure business interaction operations, such as querying the business for role validation before modeling, validate the proposed role structure, and periodic role certification.

- A process modeling environment facilitates the creation and simulation of the process design and the forms to be handled when querying the business.
- The workflow tool contains security with authentication, authorization, delegation, escalation, and audit capabilities for all business owners involved in the approval processes.
- A runtime environment that drives the process execution with website and web services interfaces, a Task List hub, form and state tracking, and email notification.
- A flexible reporting environment for process optimization, performance, auditing, and individual process statistics through the role lifecycle management operations.

### **IBM Tivoli Identity Manager V5.1 Adapters**

To provision and maintain user accounts in systems, Tivoli Identity Manager relies on its adapters. The adapters use APIs to remotely manage user accounts in systems such as operating systems, relational databases, PKI registration authorities, enterprise applications, and other security systems.

Core (infrastructure) adapters are available for the Tivoli Identity Manager server, at no additional charge, to help improve your time to value and decrease deployment times. These adapters work with some of the most common IT infrastructure components including (list not exhaustive):

- IBM AIX
- IBM Tivoli Access Manager
- IBM DB2 Universal Database™
- IBM Lotus Notes®
- Entrust PKI
- HP-UX
- LDAP Directories
- Microsoft Windows® Active Directory
- Microsoft Windows Local Account
- Novell eDirectory (NDS)
- Oracle Database
- Red Hat Enterprise Linux
- RSA ACE Server
- Sun Solaris
- SUSE Linux Enterprise Server
- Sybase Adaptive Server Enterprise

Access the following website for the latest supported version and release of the above products

<http://www-01.ibm.com/support/docview.wss?uid=swg21396546>

These adapters and their associated documentation can be downloaded from the Passport Advantage® website at

<http://www.ibm.com/software/support/pa.html>

IBM Tivoli Identity Manager also has two other groups of adapters that you can purchase to provision and maintain user accounts on additional applications and systems.

The first group, IBM Tivoli Identity Manager Application Edition, contains adapters that interface with common enterprise resource planning applications and other commercial off-the-shelf applications.

The second group, IBM Tivoli Identity Manager Host Edition, provisions and maintains user accounts on systems such as IBM RACF® and IBM System i®.

Due to the constantly changing nature of these systems, adapters are updated frequently and are available through download only. For a current list of available adapters access

<https://www-304.ibm.com/support/docview.wss?uid=swg21396546>

IBM reserves the right to add or remove adapters from a group, move adapters between groups, and add or remove adapter groups at any time without prior notice.

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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**

Tivoli Identity Manager is capable as of November 18, 2011, 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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## **Product positioning**

IBM Tivoli Identity Manager is a direct contributor within IBM Tivoli Identity and Access Assurance - a broader solution that not only helps govern the lifecycle of users, but also can enforce and monitor the access to establish governance with accountability. IBM Tivoli Identity and Access Assurance provides the following capabilities:

- Automated and policy-based user management solution that helps effectively manage user accounts.
  - Centralized authorization for web and other applications.
  - Enterprise, web, and federated single sign-on (SSO), inside, outside, and between organizations.
  - Integration with stronger forms of authentication (smart cards, tokens, one-time passwords, and so forth).
  - Policy-based access control of business-critical applications, files, and operating platforms.
  - Automated monitoring, investigating, and reporting on user activity across the enterprise.

The preceding solutions also support IBM Service Management strategy to help you automate and standardize the way you design and integrate information technology management processes and the underlying management products that support you across separate departments within your enterprises.

Services for IBM Tivoli Identity Manager

To access consulting services for Tivoli Identity Manager, go to

<http://www-306.ibm.com/software/tivoli/services/consulting/offers-security.html#idmgr>

To access identity management services that include Tivoli Identity Manager, go to

<http://www-935.ibm.com/services/us/index.wss/offering/imc/a1023322>

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## Reference information

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Refer to Software Announcement [209-182](#), dated June 23, 2009.

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## Program number

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Program number	VRM	Program name
5724-C34	5.1	Tivoli Identity Manager

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## Education support

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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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English publications will be available at general availability. National language publications will be available 60 days after general availability. English and translated publications will be available at

<http://publib.boulder.ibm.com/tividd/td/tdprodlist.html>

IBM Tivoli Identity Manager V5.1 publications (English):

- Quick Start Guide (GI11-9405)
- Installation and Configuration Guide (SC27-2410-01)
- Messages Guide (SC27-2414-00)
- Database and Directory Server Schema Reference (SC27-2413-00)
- Performance Tuning Guide (SC23-6594-04)
- API Performance Tuning Guide (SC23-8711-01)
- Separate System Upgrade and Data Migration Guide (GC27-2412-01)
- Role and Policy Modeler Quick Start Guide (GI11-9350-00)
- Role and Policy Modeler Installation and Configuration Guide (SC27-2743-00)

- Role and Policy Modeler Messages Guide (GC27-2744-00)
- Role and Policy Modeler Performance Tuning Guide (SC22-5405-00)

For more information access the following websites.

IBM Tivoli Identity Manager V5.1 information center

<http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.itim.doc/welcome.htm>

IBM Security Role and Policy Modeler V1.1 information center (available at general availability)

<http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/topic/com.ibm.security.modeling.doc/ic-homepage.htm>

For information about IBM Tivoli Identity Manager Adapters publications, refer to the [Description](#) of 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.

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## Technical information

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### **Specified operating environment**

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#### **Hardware requirements**

IBM Tivoli Identity Manager V5.1 requires a minimum of:

- 4 GB RAM
- 30 GB disk storage

#### **Software requirements**

For latest list of software requirements, access

<http://www-01.ibm.com/support/docview.wss?uid=swg27020534>

IBM Tivoli Identity Manager V5.1 requires one of the following operating systems:

- AIX V5.3, V6.1, and V7.1
- Sun Solaris 10 (SPARC)
- Windows Server 2003 R2 and SP2 Standard Edition and Enterprise Edition
- Windows Server 2008 Standard Edition and Enterprise Edition with SP2
- Red Hat Linux Enterprise 4, 5, 6 for Intel®, System p® and System z®
- SUSE Linux Enterprise Server 10.0 and 11.0 for Intel, System p, and System z

IBM Security Role and Policy Modeler requires one of the following operating systems:

- AIX V6.1 and V7.1
- Windows Server 2008 (R1) Standard Edition and Enterprise Edition (32 bit and 64 bit)



- Windows Server 2008 (R2) Standard Edition and Enterprise Edition (64 bit)
- Red Hat Linux Enterprise 5 and 6 for Intel (64 bit)
- SUSE Linux Enterprise Server 10 and 11 for Intel (64 bit)

IBM Security Role and Policy Modeler prerequisite databases and browsers

- Databases:
  - IBM DB2® Enterprise v9.7 fix pack 4 (for all supported operating systems)
  - Oracle Database 11g R2
- Browsers
  - Internet Explorer 7.0 and 8.0
  - Firefox 3.6

Tivoli Identity Manager V5.1 prerequisite releases for optional databases, servers, directory integrators, and browsers:

- Databases:
  - IBM DB2 Enterprise V9.7 (for all supported operating systems)
  - IBM DB2 Enterprise V9.5, fix pack 3b (for all supported operating systems except 32-bit Linux and Linux on System p)
  - IBM DB2 Enterprise V9.1 fix pack 4 (for all supported operating systems)
  - Oracle Database 10g Release 2, or Oracle Database 11g
  - Microsoft SQL Server 2005 Enterprise Edition
- Directory servers:
  - IBM Tivoli Directory Server V6.1, V6.2, and V6.3 Sun Java™ System Directory Server Enterprise Edition 6.3 and 7.0
- Application server:
  - IBM WebSphere® Application Server Network Deployment V6.1 and V7.0
- Directory integrator:
  - IBM Tivoli Directory Integrator V6.1.1, V6.1.2, V7.0, and V7.1
- Supported web browsers:
  - Internet Explorer 7.0 and 8.0
  - Firefox 3.0, 3.5, and 3.6

The following products are included with IBM Tivoli Identity Manager V5.1 for use restricted to Tivoli Identity Manager:

- IBM Tivoli Directory Server V6.2
- IBM Tivoli Directory Integrator V7.0 and V7.1
- IBM WebSphere Application Server Network Deployment V6.1 and V7.0
- IBM DB2 Enterprise Server Edition V9.1 (for 32-bit Linux and Linux on System p)
- IBM DB2 Enterprise Server Edition V9.5 (for all supported operating systems except 32-bit Linux and Linux on System p)
- IBM DB2 Enterprise Server Edition V9.7 (for all supported operating systems except 32-bit Linux and Linux on System p)
- IBM Websphere Business Process Manager Standard Edition V7.5

The following operating systems are no longer supported by IBM Tivoli Identity Manager V5.1 server and prerequisite middleware:

- HP-UX 11iv2 and HP-UX 11iv3 (PA-RISC and Itanium®)
- SUSE Linux Enterprise Server 9.0 for Intel, System p, and System z

The following directory servers and browsers are no longer supported by IBM Tivoli Identity Manager V5.1:

- Directory servers:
  - Sun ONE Directory Server 5.2
  - IBM Tivoli Directory Server V6.0
- Browsers:
  - Internet Explorer 6.0 with SP1 (does not support IPv6)
  - Firefox 2.0
  - Mozilla V1.7.13

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**

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### ***Packaging***

IBM Tivoli Identity Manager V5.1 is distributed with:

- International Program License Agreement (Z125-3301)
- License Information document
- Multiple DVDs
- 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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IBM Tivoli Identity Manager V5.1 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.

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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/>

### Licensing metric definitions

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#### Enterprise

Enterprise is any legal entity (such as corporation) and its subsidiaries it owns by more than 50%

#### 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

Licensee can deploy the program using either full capacity licensing or virtualization capacity (sub-capacity) licensing according to the Passport Advantage Sub-Capacity Licensing Terms (refer to the website below). If using full capacity licensing, licensee must obtain PVU entitlements sufficient to cover all activated processor cores in the physical hardware environment made available to or managed by the program, except for those servers from which the program has been permanently removed. If using virtualization capacity licensing, licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the program, as defined according to the Virtualization Capacity License Counting Rules at

[http://www.ibm.com/software/lotus/passportadvantage/Counting\\_Software\\_licenses\\_using\\_specific\\_virtualization\\_technologies.html](http://www.ibm.com/software/lotus/passportadvantage/Counting_Software_licenses_using_specific_virtualization_technologies.html)

#### User Value Units (UVU)

UVU is a unit of measure by which the program can be licensed. UVU Proofs of Entitlement (PoEs) are based on the number and type of users for the given program. Licensee must obtain sufficient entitlements for the number of UVUs required for licensee's environment as specified in the table below. The UVU entitlements are specific to the program and type of user and may not be exchanged, interchanged, or aggregated with UVU entitlements of another program or type of user.

Licensee must obtain the appropriate number of UVU entitlements based on the type of user given access to the program.

- An internal user is a unique person that is given access to the program that is part of, a contractor performing work on behalf of, or an employee of the licensee. Each internal user equals one chargeable user for the purpose of calculating UVUs.
- An external user is a unique person that is given access to the program that is not part of, a contractor performing work on behalf of, or an employee of the licensee. A ratio of fifteen external users equals one chargeable user for the purpose of calculating UVUs.
- An infrequent internal user is an internal user who accesses the target program less than five times a year. Infrequent internal users must be grouped so as to be trackable and auditable. A ratio of fifteen infrequent internal users equals one chargeable user for the purpose of calculating UVUs.
- An inactive user is one who is not using the program and whose identity is not being actively managed by the program. Inactive users are not counted.
- Inactive internal, external and infrequent users must be grouped together so as to be trackable and auditable.

- An authorized user of IBM Tivoli Identity Manager is any user whose identity is recorded in the Tivoli Identity Manager ID store.

Chargeable users are added up and the volume tiering information below is then utilized to calculate the total User Value Units entitlements required.

Scalable usage level	1	2	3	4
Chargeable users	1 - 5K	>5K - 15K	>15k - 50K	>50K-150K
value units per 1,000 chargeable users	1,000	500	300	200
Scalable usage level	5	6	7	8
Chargeable users	>150-500	>500-1M	>1M - 3M	>3M
value units per 1,000 chargeable users	100	50	25	10

## Pricing examples

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The following examples are provided to illustrate your licensing requirements.

### Scenario 1

#### Transaction 1

In Phase 1, customer ABC wants to initially secure access for the following users and adapters through one 4-way server for its 12,000 Internal users: Each Internal user equals one chargeable user.

- 12,000 Internal users of LDAP
- 12,000 Internal users of Lotus Notes
- 12,000 Internal users of SAP R3
- 2,000 Internal users of RACF

First, total the users for the class of adapters within a part number. A current list of adapters is available at

<http://www-306.ibm.com/software/sysmgmt/products/support/IBMTivoliIdentityManager.html>

#### Transaction 1

In this example, LDAP and Lotus Notes are included in the purchase price of the base part number. SAP R3 is in the Application adapter class and RACF is in the Host adapter class. The environment is 12,000 Internal users of Tivoli Identity Manager, 12,000 Internal users of IBM Tivoli Identity Manager Application Edition, and 2,000 Internal users of IBM Tivoli Identity Manager Host Edition.

Pricing metric	A Internal users	B Internal chargeable users at 1:1	C Infrequent internal users (5 times/year)	D External users	E Infrequent internal and external users at 15:1	F Total chargeable users
Identity Manager	12,000	12,000	0	0	0	12,000
Identity Manager Applications	12,000	12,000	0	0	0	12,000
Identity Manager	2,000	2,000	0	0	0	2,000

Host

Since the users are all Internal users (column A), they equate to Chargeable users (column B) on a 1 to 1 basis (where one Internal user equals one Chargeable user). There are no External users, or infrequent Internal users to factor in. The total Chargeable users are calculated column F. In the table below, column G applies the volume tiering discount factor (from the Scaleable usage model table above) to the Chargeable users for that tier, with the resulting User Value Units required to purchase for entitlement in Column H.

Pricing metric	Chargeable users scale	F Total chargeable	G User Value Units per 1,000 chargeable users	H User Value Units required (F)*(G)/1,000
Tivoli Identity Manager				
Tier 1	1-5,000	5,000	1,000	5,000
Tier 2	>5,000-15,000	7,000	500	3,500
Total chargeable		12,000	Total User value Units	8,500
Tivoli Identity Manager Application Edition				
Tier 1	1-5,000	5,000	1,000	5,000
Tier 2	>5,000-15,000	7,000	500	3,500
Total chargeable		12,000	Total User value Units	8,500
Tivoli Identity Manager Host Edition				
Tier 1	1-5,000	2,000	1,000	2,000
Total chargeable		2,000	Total User value Units	2,000

Total User Value Units to order are in column H.

Note: There is a minimum order quantity of 250 users for both Tivoli Identity Manager and each adapter; the Chargeable user quantity is raised to the next incremental 100 quantity.

*Transaction 2*

In Phase II, customer ABC wants to secure access for 1,000 additional internal users with LDAP, Notes® and SAP R3. Company ABC also wants to entitle 150,000 External users (mostly suppliers, business partners and consumers) to use the LDAP and Access Manager adapters. Finally, company ABC has 22,500 factory and construction employees who access their benefit information once or twice a year, and fall into the Infrequent Internal User category. This is an increase of 173,500 users. The additional users in the new environment for ABC's users would look as follows:

- 173,500 additional users of Tivoli Identity Manager with LDAP, Access Manager, and Lotus Notes, or 12,500 Chargeable users. Refer to the calculation below.
- 1,000 Internal users (1,000 Chargeable users at 1:1)
- 150,000 External users (10,000 Chargeable users at 1:15)
- 22,500 Infrequent Internal users (1,500 Chargeable users at 1:15 )
- 1,000 additional Internal users of SAP R3 (1,000 Chargeable users of application adapters at 1:1)

The LDAP, Access Manager, and Lotus Notes adapters are not charged separately. For the remaining adapters, the incremental Value Units are calculated taking advantage of the scalable user table and Customer ABC's previous purchase.

Pricing metric	F Phase 1 chargeable users	G Phase 2 incremental chargeable users	H New total chargeable users in ABC's environment
Tivoli Identity	12,000	12,500	24,500

Manager

Tivoli Identity Manager Application 12,000 1,000 13,000

Tivoli Identity Manager Host 2,000 0 2,000

Pricing metric	Chargeable users scale	F Total chargeable	G User Value Units per 1,000 chargeable users	H User Value Units required (F)*(G))/1,000
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Tivoli Identity Manager

Tier 1	1-5,000	5,000	1,000	5,000
Tier 2	>5,000-15,000	10,000	500	5,000
Tier 3	>15,000-50,000	9,500	300	2,850
Total chargeable		24,500	Total User Value Units	12,850

Tivoli Identity Manager Application Edition

Tier 1	1-5,000	5,000	1,000	5,000
Tier 2	>5,000-15,000	8,000	500	4,000
Total chargeable		13,000	Total User Value Units	9,000

Tivoli Identity Manager Host Edition

Tier 1	1-5,000	2,000	1,000	2,000
Total chargeable		2,000	Total User Value Units	2,000

The table below shows the User Value Units that were ordered in Phase 1 in the second column. The new required Value Unit totals in ABC's environment at the end of Phase II is in the third column. The total incremental Value Units to order are in last column.

Product	Phase 1 User Value Unit totals	New required Value Unit totals	Incremental Value Units to order
Tivoli Identity Manager	8,500	12,850	4,350
Tivoli Identity Manager Applications	8,500	9,000	500
Tivoli Identity Manager Host	2,000	2,000	0

**Scenario 2**

Assume Customer ABC prefers unlimited user access and unlimited adapters for their environment.

The customer will require Processor Value Units to entitle the following environment.

IBM Tivoli Identity Manager - Unlimited User Option

Tivoli Identity Manager Server	Quantity in customer environment	Total processors required
4-way single core	2	8*
4-way dual core	1	8*
Total processor cores requiring PVU entitlements		16

\* There is a minimum order quantity of 14 processor cores for the IBM Tivoli Identity Manager Unlimited User Option.

Note: The Unlimited User Option applies only to the 16 processor cores licensed. If the customer replaced one of the 4-way single core servers with another 4-way dual core server, an additional 4 processor cores would require Processor Value Unit entitlements. This licensing is based on the server in which IBM Tivoli Identity Manager runs.

The Unlimited User Option also includes unlimited adapters, so no adapter part numbers need to be ordered.

For more information on Processor Value Units, go to

[http://www-306.ibm.com/software/lotus/passportadvantage/pvu\\_licensing\\_for\\_customers.html](http://www-306.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html)

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## Ordering information

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

Product group: Tivoli Security  
Product Identifier Description:  
IBM Tivoli Identity Manager V5.1  
PID: 5724-C34  
Product category: Tivoli Identity Manager

### 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.

Entitled maintenance offerings description	Part number
IBM Tivoli Identity Manager 5.1 DVD Media Pack, MultiPlatform, ML	BJ0SXML

### Current licensees

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#### ***New licensees***

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 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 User Value Units and Unlimited User Option Value Units. To order for Passport Advantage, specify the desired part number and quantity.

Description	Part number
ITIM Host Edition for zEnterprise™ BladeCenter® Extension and Linux on System z User Value Unit Lic + SW S&S 12 Mo	D0LJPLL
ITIM Host Edition for zEnterprise BladeCenter Extension and Linux on System z User Value Unit Annual SW S&S Rnw1	E0CXHLL
ITIM Host Edition for zEnterprise BladeCenter Extension and Linux on System z User Value Unit Annual SW S&S Reinstate 12 Mo	D0LJQLL
ITIM App Edition for zEnterprise BladeCenter Extension and Linux on System z User Value Unit Lic + SW S&S 12 Mo	D0LJMLL
ITIM App Edition for zEnterprise BladeCenter Extension and Linux on System z User Value Unit Annual SW S&S Rnw1	E0CXGLL
ITIM App Edition for zEnterprise BladeCenter Extension and Linux on System z User Value Unit SW S&S Reinstate 12 Mo	D0LJNLL

The following part numbers have not changed. They are listed here for reference only.

Description	Part number
Tivoli Identity Manager and Role Management for zEnterprise BladeCenter Extension and Linux on System z User Value Unit SW Maint Reinstate 12 Mos	D61VWLL
Tivoli Identity Manager and Role Management for zEnterprise BladeCenter Extension and Linux on System z User Value Unit SW Maint Annual Renew	E047QLL
Tivoli Identity Manager and Role Management User Value Unit SW Maint Reinstate 12 Mos	D61VYLL
Tivoli Identity Manager and Role Management User Value Unit License & SW Maint 12 Mos	D61VXLL
Tivoli Identity Manager and Role Management User Value Unit SW Maint Annual Renewal	E047RLL
Tivoli Identity Manager and Role Management for zEnterprise BladeCenter Extension and Linux on System z User Value Unit Lic & SW Maint 12 Mos	E61VVLL
Tivoli Identity Manager App Edition User VU from Tiv Dir Integ VU Tradeup Lic & SW Maint 12 Mos	D61VULL
Tivoli Identity Manager Application Edition User VU SW Maint Annual Renew	E047PLL
Tivoli Identity Manager Application Edition User VU Lic & SW Maint 12 Mos	D61VSLl
Tivoli Identity Manager Application Edition User VU SW Maint Reinst 12 Mos	D61VTLL
Tivoli Identity Manager Host Ed User VU from Identity Dir Integ Tradeup Lic & SW Maint 12 Mos	D61VILL
Tivoli Identity Manager Host Edition User VU SW Maint Annual Renew	E047JLL
Tivoli Identity Manager Host Edition User VU License & SW Maint 12 Mos	D61VGLL
Tivoli Identity Manager Host Edition VU	D61VHLL



SW Maint Reinstate 12 Mos	
Tivoli Identity Manager and Role Management	D61VKLL
UO VU SW Maint Reinstate 12 Mos	
Tivoli Identity Manager and Role Management	E047KLL
UO VU SW Maint Annual Renewal	
Tivoli Identity Manager and Role Management	E047ILL
for zEnterprise BladeCenter Extension	
and Linux on System z Processor Value Unit	
SW Maint Annual Renewal	
Tivoli Identity Manager and Role Management	D61VELL
for zEnterprise BladeCenter Extension	
and Linux on System z Processor Value Unit	
Lic & SW Maint 12 Mos	
Tivoli Identity Manager and Role Management	D61VJLL
UO VU Lic & SW Maint 12 Mos	
Tivoli Identity Manager and Role Management	D61VFLL
for zEnterprise BladeCenter Extension	
and Linux on System z Processor Value Unit	
SW Maint Reinst 12 Mos	

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

Description	Part number
IBM Tivoli Identity Manager 5.1 DVD Media Pack, MultiPlatform, ML	BJ0SXML

IBM Tivoli Identity Manager is also available, via web download, from Passport Advantage.

For information about Value-Based Pricing and Software Maintenance options, contact your IBM representative.

### Subscription and Support

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

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

IBM is also providing Subscription and Support for these products, via a separately purchased offering, under the terms of the IBM International Agreement for Acquisition of Support Maintenance (IAASM). This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone during normal business hours.
- Entitles customers to future releases and versions, at no additional charge. Note that the customer is not entitled to new products.

When Subscription and Support is ordered, the charges will automatically renew annually unless cancelled by the customer.

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## Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the 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 form number***

L-YSOI-8LEEUD.

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***

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

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

### ***Program technical support***

Technical support of a program product version or release will be available for a minimum of five years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription

and Support (Software Maintenance) also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

### ***Money-back guarantee***

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

### ***Other terms***

#### ***Volume orders (IVO)***

No

### ***IBM International Passport Advantage Agreement***

#### ***Passport Advantage applies***

Yes, and through the Passport Advantage website at

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

#### ***Usage restriction***

Yes. Usage is limited to the quantity of Value Units licensed.

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

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

#### ***Software Subscription and Support applies***

Yes. 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 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.

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

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage website at

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

***System i Software Maintenance applies***

No

***Variable charges apply***

No

***Educational allowance available***

Not applicable.

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## **IBM Electronic Services**

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

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To learn how Electronic Services can work for you, visit

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

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## **Prices**

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If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM, you may link to Passport Advantage Online for resellers where

you can obtain Business Partner pricing information. An IBM ID and password are required.

<https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller>

Information on charges is available at website

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

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

### **Passport Advantage**

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

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

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## **Order now**

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