IBM Tivoli Identity and Access Manager V1.0 and IBM Tivoli Unified Single Sign-On V1.0

At a glance

IBM® Tivoli® Identity and Access Manager V1.0

- Helps address today's challenges to manage identities with efficient lifecycle management and access controls for internal and external users.
- Provides single part number ordering to enable you to realize the benefits of two leading solutions at a very affordable price:
  - IBM Tivoli Identity Manager provides a secure, automated, and policy-based user management solution that helps effectively manage user accounts.
  - IBM Tivoli Access Manager for e-business is a hub for authentication and authorization for Web and other applications.

IBM Tivoli Unified Single Sign-On V1.0

- Provides enterprise, Web, and federated single sign on, inside, outside, and between organizations.
- Provides single part number ordering to offer the combined benefits of a sign-on solution at a very affordable price:
  - IBM Tivoli Access Manager for Enterprise Single Sign-On Suite addresses single sign-on requirements inside the organization and strengthens access by integrating with strong authentication.
  - Tivoli Federated Identity Manager provides user-centric, federated single sign-on between organizations to securely share information between trusted partners (and outside the organization for Web and other applications via the included IBM Tivoli Access Manager for e-business).

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

Overview

IBM Tivoli Identity and Access Manager V1.0

IBM Tivoli Identity and Access Manager V1.0 helps address today's challenging requirements to manage identities with efficient user lifecycle management and access controls for internal and external users. Ordering this single part number enables you to realize the benefits of two leading solutions - IBM Tivoli Identity Manager and IBM Tivoli Access Manager for e-business - at a very affordable price.
IBM Tivoli Identity Manager provides a secure, automated, and policy-based user management solution that helps effectively manage user accounts, access permissions and passwords from creation to termination across the IT environment. IBM Tivoli Access Manager for e-business is a hub for authentication and authorization for Web and other applications, centralizes security management, and makes it easy and more cost effective to deploy secure applications.

**IBM Tivoli Unified Single Sign-On V1.0**

IBM Tivoli Unified Single Sign-On V1.0 addresses requirements for single sign-on inside, outside, and between organizations. Ordering this single part number enables you to realize the combined benefits of two leading single sign-on solutions - IBM Tivoli Access Manager for Enterprise Single Sign-On Suite and IBM Tivoli Federated Identity Manager (which includes IBM Tivoli Access Manager for e-business) - at a very affordable price.

IBM Tivoli Access Manager for Enterprise Single Sign-On addresses single sign-on requirements inside the organization and simplifies, strengthens and tracks access by integrating with strong authentication, access workflow automation, fast user switching, and audit reporting. Through IBM Tivoli Access Manager for e-business, Tivoli Federated Identity Manager addresses single sign-on requirements outside the organization as a single sign-on hub for authentication and authorization for Web and other applications. IBM Tivoli Federated Identity Manager also addresses single sign-on requirements between organizations by providing user-centric, federated single sign-on to securely share information between trusted partners.

**Key prerequisites**

For details, refer to the Hardware requirements and Software requirements section.

**Planned availability dates**

- October 17, 2008 for electronic delivery
- November 14, 2008 for physical delivery

**Description**

**IBM Tivoli Identity and Access Manager V1.0**

IBM Tivoli Identity and Access Manager V1.0 helps address today’s challenging requirements to manage identities with efficient user lifecycle management and access controls for internal and external users. Ordering this single part number enables you to realize the benefits of two industry-leading solutions - IBM Tivoli Identity Manager and IBM Tivoli Access Manager for e-business - at a very affordable price.

**Key benefits for each product in the bundled solution**

**IBM Tivoli Identity Manager**

IBM Tivoli Identity Manager provides a secure, automated, and policy-based solution that helps effectively manage user accounts, access permissions, and passwords from creation to termination across IT environments. It helps automate the processes of creating and provisioning or de-provisioning user privileges across heterogeneous IT resources throughout the entire user lifecycle.

IBM Tivoli Identity Manager can help increase user efficiency, reduce IT administration costs, and manage compliance with your security policies with centralized user account maintenance (including self-service interfaces), delegated administration, automated approvals processing, periodic revalidation of user access rights, documentation of controls, and other standard reports.

IBM Tivoli Identity Manager helps bridge the gap between how business users view their IT resources and the actual IT implementation of user access rights, maximize productivity of the
various groups of users involved in identity management, and greatly accelerate and simplify system deployment and ongoing administration.

IBM Tivoli Access Manager for e-business

Tivoli Access Manager for e-business, an authentication and authorization hub for Web applications, not only centralizes security management, but it can make it easy and more cost effective to deploy secure applications. Tivoli Access Manager for e-business extends the ability to secure a heterogeneous application infrastructure while adding performance, scalability, and integration improvements.

Key features:

- Define and manage a centralized authentication, access control policy for a broad range of business initiatives such as employee, customer, and business partner portal, CRM and ERP systems upgrades, new ECM and business intelligence platforms deployments, e-procurement, cross-company single sign-on, and outsourcing projects.
- Enable flexible single sign-on to heterogeneous Web-based applications that can span multiple sites or domains. By integrating with other SSO providers (such as Kerberos support from a Microsoft® domain logon and client/server SSO solution), Tivoli Access Manager for e-business provides a unified authentication for the users across all system interactions.
- Provide a base for the federation of user identities. For standardized cross-domain authentication (federation), Tivoli Access Manager for e-business customers can upgrade to Tivoli Federated Identity Manager - a modular access control solution for cross-domain single sign-on.
- Strengthen your Web application security with antifraud support and help minimize the threat of common vulnerabilities affecting Web application deployments in production use.

Together, these products provide automated user information management and access controls for internal and external users.

IBM Tivoli Unified Single Sign-On V1.0

IBM Tivoli Unified Single Sign-On V1.0 addresses requirements for a single part number and enables you to realize the combined benefits of two leading single sign-on solutions - IBM Tivoli Access Manager for Enterprise Single Sign-On Suite and IBM Tivoli Federated Identity Manager (which includes Tivoli Access Manager for e-business) - through a single part number at a very affordable price.

Key benefits for each product in the bundled solution

IBM Tivoli Federated Identity Manager

Collaboration within and across organization's business ecosystem, including consumers, business partners, and independently managed business units, plays a key role in the business process management initiatives motivating a move towards service oriented architecture (SOA), and even Web 2.0 adoption. With browser-based integration and open standards, IBM Tivoli Federated Identity Manager can provide quick gains in user productivity, user experience, and a reduction in administration costs by delivering federated single sign-on. End users authenticate once and then seamlessly obtain secure access to applications and services inside and outside their network infrastructure.

IBM Tivoli Federated Identity Manager provides federated single sign-on capability in a way that can minimize the impact on business applications to help reduce costs and deployment timeframes for integrating applications into a collaboration infrastructure.

Furthermore, the reuse of existing applications and Web services can help reduce SOA implementation costs. But, these existing applications and Web services are often developed independently and have different notions of an identity, multiple formats in which they share these identities, and a common inability to audit the use of generic identity in the mainframe environment. Tivoli Federated Identity Manager provides flexible Web services identity services using the Security Token Service (STS) that enables the ability to validate and issue a wide variety of identity formats and flow auditable identities between applications and services across multiple security domains and the enterprise. To aid compliance activities, Tivoli Federated Identity Manager also provides integrated audit data collection and reporting.
IBM Tivoli Access Manager for Enterprise Single Sign-On Suite V8.0

Tivoli Access Manager for Enterprise Single Sign-On Suite simplifies, strengthens, and tracks access to all Microsoft Windows®, Web, Java™, mainframe, and teletype applications, across all major network access points, including Windows desktops, laptops, shared kiosks, Citrix servers, Microsoft Terminal Servers, and Web portals. Tivoli Access Manager for Enterprise Single Sign-On Suite also:

- Helps simplify the end-user experience by eliminating the need to remember and manage user names and passwords, and by automating sign-on and access
- Enhances security by addressing poor end-user password behavior
- Can reduce password-related help desk costs by helping lower the number of password reset calls
- Enables comprehensive session management of kiosk machines to improve security and user productivity
- Enhances security through a wide choice of strong authentication factors
- Leverages centralized audit and reporting capabilities to facilitate compliance with privacy and security regulations
- Extends IBM Tivoli Access Manager for e-business's fine-grained authorization and entitlements for Web applications, by fully addressing single sign-on across all network access points
- Enables end-to-end identity and access management by integrating the centralized identity management functions of IBM Tivoli Identity Manager

Together these products provide single sign-on inside, outside, and between organizations.

Accessibility by people with disabilities

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


Section 508 of the U.S. Rehabilitation Act

(name of product or offering) is capable as of (date of general availability), 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 Web site


Product positioning

IBM Tivoli Identity and Access Manager V1.0

IBM Tivoli Identity Manager

IBM Tivoli Identity Manager is an integral part of IBM's identity and access management solution. It provides policy-based automation to manage user identities and their access to heterogeneous information resources throughout the user lifecycle, while supporting key policy compliance and audit readiness requirements. IBM Tivoli Identity Manager integrates with IBM Tivoli Access Manager, IBM Tivoli Federated Identity Manager, IBM Tivoli Directory Integrator, and IBM Tivoli Directory Server -- which are the other key parts of the IBM identity management and access solution.
IBM Tivoli Access Manager for e-business

IBM Tivoli Access Manager for e-business is an application security solution providing authentication and authorization service to address real-time application security needs and offering Web SSO and static entitlement management for Web application resources.

In the IBM Tivoli security portfolio, Tivoli Access Manager for e-business fulfills the role of user-access control and run-time enforcement - the central point of authentication of the user, and enforcement of resource access control policy. This can be contrasted with Tivoli Identity Manager, which focuses on user provisioning through the management of user identities and passwords in a closed-loop, workflow-based solution.

IBM Tivoli Unified Single Sign-On V1.0

IBM Tivoli Federated Identity Manager

IBM Tivoli Federated Identity Manager is an access management solution that has two distinct value propositions. First, it is a robust access control solution that facilitates collaboration inside and outside the enterprise by delivering federated single sign-on. Second, it is a SOA identity service solution that provides end-to-end identity mediation and token validation across diverse applications, services, and mash-ups through its Security Token Service (STS).

As your single sign-on needs extend beyond the enterprise to a third party or to a separate domain within the enterprise (for example, newly acquired division or different line of business), Tivoli Federated Identity Manager adds federated single sign-on and Web services identity service standards such as SAML, Liberty, WS-Federation, and WS-Trust support to user access control and run-time enforcement.

The SOA identity service value delivered in Tivoli Federated Identity Manager today can be received on its own or through the IBM federated enterprise service bus (ESB) solution. SOA is inherently cross-domain and with that can come the user of varying user identity formats (for example, rays@us.ibm.com or ray@us.ibm.com) from one application to the next. Delivering on the promise of SOA can be extremely costly to administer and difficult to comply with required policies or regulations. Tivoli Federated Identity Manager's SOA identity service is able to manage, map, propagate, and audit identities across domains to maintain identity context throughout.

Through Tivoli Access Manager for e-business and IBM Tivoli Federated Identity Manager also offer Web SSO and static entitlement management for Web application resources.

IBM Tivoli Access Manager for Enterprise Single Sign-On Suite

IBM Tivoli Access Manager for Enterprise Single Sign-On Suite simplifies, strengthens, and tracks access to all applications, across all major network access points. It is easy to deploy, supports a wide choice of strong authentication factors, and has one of the broadest coverage of network access points and session management capabilities.

Reference information

For additional information on IBM Tivoli Identity and Access Manager V1.0, refer to:

- Software Announcement 207-347, dated December 11, 2007
- Software Announcement 208-077, dated April 08, 2008

For additional information on Tivoli Unified Single Sign-On V1.0, refer to:

- Software Announcement 208-136, dated June 17, 2008
- Software Announcement 208-077, dated April 08, 2008
- Software Announcement 208-222, dated August 26, 2008
Program number | VRM | Program name
--- | --- | ---
5724-W00 | 1.0.0 | IBM Tivoli Identity and Access Manager
5724-W01 | 1.0.0 | IBM Tivoli Unified Single Sign-On

**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


Also, visit the Passport Advantage® Web site


**Publications**

Refer to the **Reference information** section for publications available for each product in Tivoli Identity and Access Manager and Tivoli Unified Single Sign-On offerings.

The IBM Publications Center


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**

Minimum and recommended processor, disk space, and memory requirements for IBM Tivoli Identity Manager V5.0 follows:

- 2 GB RAM
- 20 GB disk storage

Minimum and recommended processor, disk space, and memory requirements for IBM Tivoli Access Manager for e-business V6.1:

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>400® MHz</td>
<td>1 GHz</td>
</tr>
<tr>
<td>Disk space excluding websphere®, Web server, or web browser</td>
<td>101 MB</td>
<td>226 MB</td>
</tr>
</tbody>
</table>
Minimum and recommended processor, disk space, and memory requirements for IBM Tivoli Federated Identity Manager V6.2 follow:

<table>
<thead>
<tr>
<th></th>
<th>Minimum</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>300 MHz</td>
<td>400 MHz</td>
</tr>
<tr>
<td>Disk space excluding webSphere</td>
<td>1 GB</td>
<td>1.5 GB</td>
</tr>
<tr>
<td>Memory excluding webSphere</td>
<td>1 GB</td>
<td>1.5 GB</td>
</tr>
</tbody>
</table>

Tivoli Access Manager for Enterprise Single Sign-On - Client agent requirements:

- 600 MHz Intel® Pentium-based processor and 128 MB RAM
- Disk space: At least 100 MB free hard disk space

Tivoli Access Manager for Enterprise Single Sign-On - Administrative console and server requirements:

- 1.2 GHz Pentium-compatible processor and 256 MB RAM
- Disk space: At least 300 MB free hard disk space

**Software requirements**

Following is a list of the software requirements for each of the products in each of the Tivoli Identity and Access Manager and Tivoli Unified Single Sign-On offerings.

**IBM Tivoli Identity Manager V5.0**

IBM Tivoli Identity Manager V5.0 requires one of the following operating systems:

- AIX® V5.3 or AIX V6.1
- HP-UX 11i v2, 11i v3 (PA-RISC or Itanium®)
- Sun Server Solaris 10 (SPARC)
- Red Hat Linux® Enterprise 4.0 for Intel, System p® and System z®
- Red Hat Linux Enterprise 5.0 for Intel, System p and System z
- SUSE Linux Enterprise Server 9.0 for Intel, System p and System z
- SUSE Linux Enterprise Server 10.0 for Intel, System p and System z

Prerequisite releases for optional databases and servers

**Databases:**

- IBM DB2® Enterprise V9.1, fix pack 2
- Oracle Database 10g Release 2 or 11g
- Microsoft SQL Server 2005 Enterprise Edition

**Directory Servers:**

- IBM Tivoli Directory Server V6.0, fix pack 5 or V6.1
- Sun Java System Directory Server 5.2 or 6.2

**Application Server:**

The following products are included with IBM Tivoli Identity Manager V5.0 for use restricted to Identity Manager:

- IBM Tivoli Directory Server V6.1
• IBM Tivoli Directory Integrator V6.1.1
• IBM WebSphere Deployment Manager V6.1, fix pack 9
• IBM DB2 Enterprise V9.1, fix pack 2

Supported Web browsers:

• Mozilla 1.7.13
• Internet Explorer 6.0 with SP1 (does not support IPv6)
• Internet Explorer 7.0
• Firefox 1.5.0.7
• Firefox 2.0

The following operating systems are no longer supported by IBM Tivoli Identity Manager V5.0:

• AIX V5.2
• Sun Server Solaris 9
• Red Hat Linux Enterprise for Intel (x86) 3.0

The following databases, Web Application Servers, Directory Servers, and browsers are no longer supported by IBM Tivoli Identity Manager V5.0:

Databases:

• IBM DB2 Universal Database™ V8.2
• Oracle 9i Release 2
• Microsoft SQL Server 2000

Web Application Servers:

• WebSphere Application Server V5.1.1

Directory servers:

• IBM Tivoli Directory Server V5.2

Browsers:

• Mozilla 1.7.3

IBM Tivoli Access Manager for e-business V6.1

IBM Tivoli Access Manager for e-business V6.1 base components - Access Manager Runtime, Java Runtime, Authorization Server, Policy Proxy Server, Policy Server, Web Portal Manager, and Application Development Kit run on the following operating systems:

• IBM AIX V5.2 or V5.3
• IBM AIX V6.1 (with TAMeb 6.1, Fixpack 1)
• Sun Solaris 9 or 10 on SPARC
• Sun Solaris 10 on AMD64
• Hewlett-Packard HP-UX 11iv2 or 11iv3 on PA-RISC or Itanium
• Microsoft Windows 2003 Server Standard Edition on x86, AMD64, or EM64T
• Microsoft Windows 2003 Server Enterprise Edition on x86, AMD64, or EM64T
• Microsoft Windows 2008 Server Standard Edition on x86, AMD64, or EM64T (with TAMeb 6.1 Fixpack 1)
• Microsoft Windows 2008 Server Enterprise Edition on x86, AMD64, or EM64T (with TAMeb 6.1 Fixpack 1)
• Red Hat Enterprise Linux 4.0 or 5.0 on x86, AMD64 or EM64T on System x™, System i®, System p, or System z
• SUSE Linux Enterprise Server 9 or 10 on x86, AMD64 or EM64T on System x, System i, System p, or System z

Access Manager Web Portal Manager

• IBM AIX V5.2 or V5.3
• IBM AIX V6.1 (with TAMeb 6.1, Fixpack 1)
• Sun Solaris 9 or 10 on SPARC
• Sun Solaris 10 on AMD64
• Hewlett-Packard HP-UX 11i2 or 11i3 on PA-RISC and Itanium
• Microsoft Windows 2003 Server Standard Edition on x86, AMD64, or EM64T
• Microsoft Windows 2003 Server Enterprise Edition on x86, AMD64, or EM64T
• Microsoft Windows 2008 Server Standard Edition on x86, AMD64, or EM64T (with TAMeb 6.1, Fixpack 1)
• Microsoft Windows 2008 Server Enterprise Edition on x86, AMD64, or EM64T (with TAMeb 6.1, Fixpack 1)
• Red Hat Enterprise Linux Server 4.0 or 5.0 on x86, AMD64, or EM64T on System x, System i, System p, or System z
• SUSE Linux Enterprise Server 9 or 10 on x86, AMD64 or EM64t on System x, System i, System p or System z

Access Manager reverse proxy (WebSEAL)

• IBM AIX V5.2, or V5.3
• IBM AIX V6.1 (with TAMeb 6.1, Fixpack 1)
• Sun Solaris 9 or 10 on SPARC
• Sun Solaris 10 on AMD64
• Hewlett-Packard HP-UX 11i2 or 11i3 on PA-RISC and Itanium
• Microsoft Windows 2003 Server Standard Edition on x86
• Microsoft Windows 2003 Server Enterprise Edition on x86
• Microsoft Windows 2008 Server Standard Edition on x86, AMD64, or EM64T (with TAMeb 6.1, Fixpack 1)
• Microsoft Windows 2008 Server Enterprise Edition on x86, AMD64, or EM64T (with TAMeb 6.1, Fixpack 1)
• Red Hat Enterprise Linux 4.0 or 5.0 on x86 on System x or System z
• SUSE Linux Enterprise Server 9 or 10 on x86 on System x or System z

Access Manager Plug-in for Web Servers

• Apache Web Server 2.0
  – IBM AIX V5.2 or V5.3
  – IBM AIX V6.1 (with TAMeb 6.1, Fixpack 1)
  – Sun Solaris 9 or 10 on SPARC
  – Red Hat Enterprise Linux Server 4.0 on System z
  – SUSE Linux Enterprise Server 9 or 10 on System z
• IBM HTTP Server V1.3
  – IBM AIX V5.1 or V5.2
  – IBM AIX V6.1 (with TAMeb 6.1, Fixpack 1)
  – Sun Solaris 9 or 10 on SPARC
  – Red Hat Enterprise Linux Server 4.0 or 5.0 on x86 on System x or System z
  – SUSE Linux Enterprise Server 9 or 10 on x86 on System x or System z
  – Microsoft Windows 2003 Server Standard Edition on x86
  – Microsoft Windows 2003 Server Enterprise Edition on x86
• IBM HTTP Server V2.0
- IBM AIX V5.2 or V5.3
- IBM AIX V6.1 (with TAMeb 6.1, Fixpack 1)
- Sun Solaris 9 or 10 on SPARC
- Red Hat Enterprise Linux Server 4.0 or 5.0 on x86 on System x or System z
- SUSE Linux Enterprise Server 9 or 10 on x86 on System x or System z
- Microsoft Windows 2003 Server Standard Edition on x86
- Microsoft Windows 2003 Server Enterprise Edition on x86
- Microsoft Windows 2008 Server Standard Edition on x86, AMD64, or EM64T (with TAMeb 6.1, Fixpack 1)
- Microsoft Windows 2008 Server Enterprise Edition on x86, AMD64, or EM64T (with TAMeb 6.1, Fixpack 1)

- IBM HTTP Server V6.0
- IBM AIX V5.2 or V5.3
- IBM AIX V6.1 (with TAMeb 6.1, Fixpack 1)
- Sun Solaris 9 or 10 on SPARC
- Microsoft Windows 2003 Server Enterprise Edition
- Microsoft Windows 2008 Server Standard Edition on x86, AMD64, or EM64T (with TAMeb 6.1, Fixpack 1)
- Microsoft Windows 2008 Server Enterprise Edition on x86, AMD64, or EM64T (with TAMeb 6.1, Fixpack 1)
- Red Hat Enterprise Linux Server 4.0 or 5.0 on x86 on System x or System z
- SUSE Linux Enterprise Server 9 or 10 on x86 on System x or System z

- Sun Java System Web Server 6.1 SP1
- IBM AIX V5.1 and V5.2
- IBM AIX V6.1 (with TAMeb 6.1, Fixpack 1)
- Sun Solaris 9 or 10 on SPARC

- Sun Java System Web Server 7.0
- Sun Solaris 9 or 10 on SPARC

- IBM Edge Component for WebSphere Application Server Network Deployment V6.1
- IBM AIX V5.2 or V5.3
- Sun Solaris 9 or 10 on SPARC
- Red Hat Enterprise Linux Server 4.0 and 5.0 on x86 on System x
- SUSE Linux Enterprise Server 9 or 10 on x86 on System x or System z

- Microsoft IIS 6.0
- Microsoft Windows 2003 Server Standard Edition on x86
- Microsoft Windows 2003 Server Enterprise Edition on x86

- Microsoft IIS 7.0
- Microsoft Windows 2008 Server Standard Edition on x86, AMD64, or EM64T (with TAMeb 6.1, Fixpack 1)
- Microsoft Windows 2008 Server Enterprise Edition on x86, AMD64, or EM64T (with TAMeb 6.1, Fixpack 1)

Access Manager Session Management Services

- IBM AIX V5.2 or V5.3
- IBM AIX V6.1 (with TAMeb 6.1, Fixpack 1)
- Sun Solaris 9 or 10 on SPARC
- Hewlett-Packard HP-UX 11iv2 or 11iv3 on PA-RISC
- Microsoft Windows 2003 Server Standard Edition on x86
• Microsoft Windows 2003 Server Enterprise Edition on x86
• Microsoft Windows 2008 Server Standard Edition on x86, AMD64, or EM64T (with TAMeb 6.1, Fixpack 1)
• Microsoft Windows 2008 Server Enterprise Edition on x86, AMD64, or EM64T (with TAMeb 6.1, Fixpack 1)
• Red Hat Enterprise Linux Server 4.0 or 5.0 on x86 on System x or System z
• SUSE Linux Enterprise Server 9 or 10 on x86 on System x or System z

The following products are included with Tivoli Access Manager for e-business V6.1 for use restricted to Tivoli Access Manager for e-business:

• IBM Tivoli Directory Server V6.1
• IBM Tivoli Directory Integrator V6.1.1
• IBM WebSphere Application Server V6.1
• IBM DB2 Enterprise Server Edition V9.1

Note: Crystal-based Reports are no longer included with Tivoli Access Manager for e-business V6.1. Tivoli Access Manager for e-business V6.1 now includes a common reporting mechanism.

**IBM Tivoli Federated Identity Manager V6.2**

IBM Tivoli Federated Identity Manager V6.2 supports the following:

• IBM AIX (32 bit) V5.2, V5.3 and V6.1
• Sun Solaris 9 (Sparc) and 10 (Sparc)
• Microsoft Windows 2003 Standard Server and Enterprise Server
• Microsoft Windows 2008 Standard Server and Enterprise Server (with TFIM 6.2, Fixpack 1)
• Red Hat Linux Advanced Server 3.0 for System x
• Red Hat Linux Advanced Server 4.0 for System x
• Red Hat Linux Advanced Server 4.0 for System p
• Red Hat Linux Advanced Server 4.0 for System z
• Red Hat Linux Advanced Server and Enterprise Server 5.0 for System x
• Red Hat Linux Advanced Server 5.0 for System p
• Red Hat Linux Advanced Server 5.0 for System z
• SUSE Linux Enterprise Server 9 and 10 for IBM System x (31-bit native and 31-bit compatibility mode in 64-bit native)
• SUSE Linux Enterprise Server 9 and 10 for IBM System p (31-bit native and 31-bit compatibility mode in 64-bit native)
• SUSE Linux Enterprise Server 9 and 10 for IBM System z (31-bit native and 31-bit compatibility mode in 64-bit native)
• HP-UX 11i2 on Integrity
• HP-UX 11i3 on Integrity

The Web Server Plug-in component of Tivoli Federated Identity Manager supports:

• Apache Web Server 2.0
  – Red Hat Enterprise Linux Server 4.0 or 5.0 on System x
  – SUSE Linux Enterprise Server 9 or 10 on System x
• Apache Web Server 2.2
  – Red Hat Enterprise Linux Server 4.0 or 5.0 on System x
  – SUSE Linux Enterprise Server 9 or 10 on System x
• IBM HTTP Server V6.1
  – Red Hat Enterprise Linux Server 4.0 or 5.0 on System x
  – SUSE Linux Enterprise Server 9 or 10 on System x
• Microsoft Internet Information Server 6.0

Included with the program package for use restricted to Tivoli Federated Identity Manager V6.2 are:

• IBM WebSphere Application Server Network Deployment V6.1,
• An embedded version of IBM WebSphere Application Server V6.1
• IBM Tivoli Directory Integrator V6.1.1
• IBM Tivoli Directory Server V6.1
• IBM Tivoli Access Manager for e-business V6.1
• IBM Tivoli Common Reporting V1.1.1

**Tivoli Access Manager for Enterprise Single Sign-On V8.0**

Tivoli Access Manager for Enterprise Single Sign-On V8.0 - Client agent requirements:

• Windows 2000 SP3, XP SP2, 2003 Server
• Microsoft Internet Explorer 5.0, or later with 128-bit encryption
• Installation via Microsoft Installer package requires Microsoft Windows Installer

Tivoli Access Manager for Enterprise Single Sign-On V8.0 - Administrative console and server requirements:

• IMS™ Server requires Windows 2003 Server
• AccessAdmin requires Microsoft Internet Explorer 5.0, or later with 128-bit encryption

The following are supported:

• Directory:
  – IBM Tivoli Directory Server V6.1, or later
  – Novell eDirectory Version 8.6, or later
  – Sun Java System Directory Server 5.2, or later
  – SunONE Directory Server 5.1, or later
• DB2 Enterprise Server Edition 9.5 is included with the program package for use restricted to Tivoli Access Manager for Enterprise Single Sign-On V8.0. (It is separately packaged, and if using DB2, it should be installed before installing the IMS Installer.)
• Microsoft SQL Server 2005 Express Edition. (It is embedded in Tivoli Access Manager for Enterprise Single Sign-On, and not separately packaged)
• Oracle Database 9i is also supported.

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.

**Companion products**

IBM Tivoli Unified Single Sign-On may also be sold with IBM Tivoli Identity Manager and other compliance reporting products.

**Planning information**

Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the Software Subscription and Support (Software Maintenance) offering as described in the Agreements. Product upgrades provide
the latest versions and releases to entitled software, and technical support provides voice and
electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support (also referred to as Software
Maintenance) with each program license acquired. The initial period of Software Subscription
and Support (Software Maintenance) can be extended by the purchase of a renewal option, if
available.

Packaging
The IBM Tivoli Identity and Access Manager V1.0 is distributed with:

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

The IBM Tivoli Unified Single Sign-On V1.0 is distributed with:

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

This program, when downloaded from a Web site, contains the applicable IBM license
agreement and License Information, if appropriate, and will be presented for acceptance at the
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be stored in a directory such as LICENSE.TXT.

Security, auditability, and control
The IBM Tivoli Identity and Access Manager V1.0 and IBM Tivoli Unified Single Sign-On V1.0
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.

Software Services
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/

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 Proof of Entitlement (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 are:

- 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.
• An authorized user of IBM Tivoli Identity and Access Manager is any ID whose identity is recorded in the Tivoli Identity Manager identity store, and/or any ID that accesses an application or service managed or protected by IBM Tivoli Access Manager for e-business.
• An authorized user of IBM Tivoli Unified Single Sign-On is any ID that accesses an application or service managed or protected by IBM Tivoli Unified Single Sign-On.
• An authorized user of IBM Tivoli Access Manager for Enterprise Single Sign-On is any ID that accesses an application or service managed or protected by IBM Tivoli Access Manager for Enterprise Single Sign-On.
• Quantities of authorized users of IBM Tivoli Federated Identity Manager, Tivoli Access Manager for e-business, Tivoli Access Manager for Enterprise Single Sign-On, Tivoli Identity Manager, Tivoli Identity and Access Manager, and Tivoli Unified Single Sign-On will only include users that have usable accounts. If their accounts have been made unusable, then those users do not have to count against the quantities of users that need to be licensed. Such accounts must remain unusable for a minimum of six months in order to not count against the quantities of users that need to be licensed.

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

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

External user is an authorized user who is not part of the enterprise.

Internal user is an authorized user that is 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.

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

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.

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

Resource Value Unit (RVU)

A resource is the measurement for program license entitlements which is based upon the quantity of the specific designated measurement used for a given program. A RVU is a pricing charge metric of IBM Tivoli's Enhanced Value-Based Pricing, which uses a managed-environment approach whereby price is determined by what is managed. Whenever the designated measurement is a resource, not all resources require the same number of RVUs. RVU schedules are located in the Pricing examples section.
Server
A server is a computer system that executes requested procedures, commands, or applications to one or more user or client devices over a network. A PoE must be obtained for each server on which the program or a component of the program is run or for each server managed by the program. Where blade technology is employed, each blade is considered a separate server.

Standby or backup systems
For programs running or resident on backup machines, IBM defines three types of situations: cold, warm and hot. In cold and warm situations, a separate entitlement for the copy on the backup machine is normally not required and typically no additional charge applies. In a hot backup situation, the customer needs to acquire other licenses or entitlements sufficient for that server. All programs running in backup mode must be solely under the customer's control, even if running at another enterprise's location.

As a practice, the following are definitions and allowable actions concerning the copy of the program used for backup purposes

**Cold:** A copy of the program may reside, for backup purposes, on a machine as long as the program is not started. There is no additional charge for this copy.

**Warm:** A copy of the program may reside for backup purposes on a machine and is started, but is idling, and is not doing any work of any kind. There is no additional charge for this copy.

**Hot:** A copy of the program may reside for backup purposes on a machine, is started, and is doing work. The customer must acquire a license or entitlement(s) for this copy and there will generally be an additional charge.

Doing work includes, for example, production, development, program maintenance, and testing. It also could include other activities such as mirroring of transactions, updating of files, synchronization of programs, data or other resources (for example, active linking with another machine, program, database or other resource, and so on), or any activity or configurations that would allow an active hot switch or other synchronized switch over between programs, databases, or other resources to occur.

In the case of a program or system configuration that is designed to support a high availability environment by using various techniques (for example, duplexing, mirroring of files, or transactions, maintaining a heartbeat, active linking with another machine, program, database, or other resource), the program is considered to be doing work in the hot situation and a license or entitlement must be purchased.

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, resources, 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
User Value Units

A User 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. See Value Units definition. Users is a descriptive of one of the Value Unit charge metrics.

Processor (Value Unit)

A processor core is a functional unit within a computing device that interprets and executes instructions. A processor core consists of at least an instruction control unit and one or more arithmetic or logic unit. With multicore technology, each core is considered a processor. Not all processor cores require the same number of Value Unit entitlements. To calculate the number of Value Unit entitlements required, refer to the value unit table on the following Web site


With full capacity licensing, a PoE must be acquired for the appropriate number of value units based on all activated processor cores available for use on the server.

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 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 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:
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.

Exceptions to the Environment-Managed Licensing Model

IBM Tivoli products are priced based on the environment managed and follow the definitions laid out in the IBM Tivoli Enhanced Value-based Pricing terminology section of this announcement, with the following exceptions:

IBM Tivoli Access Manager for e-business - Count either the number of registered users or the number of processors in the server(s) on which IBM Tivoli Access Manager runs, but not both.

Distributed pricing examples

The following examples are provided to illustrate your licensing requirements.

References to processor-based licensing do not represent the actual number of entitlements required. Entitlement requirements are Processor Value Unit based (PVU). Processors referenced in these examples represent the designated measurement on which the required number of Processor Value Unit entitlements will be calculated. The number of PVUs 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 Processor Value Unit entitlements required per processor, refer to the processor Value Unit conversion table on the Passport Advantage Web site.

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.

The pricing example below should be used to determine required license entitlements for Tivoli Identity and Access Manager V1.0 and Tivoli Unified Single Sign-On V1.0, which is managed by the licensed processor.

Note: Products also have program-specific licensing terms, which are described later in this document. Consult the program-specific licensing terms to determine total licensing requirements for the applicable products.

Pricing model examples

Scalable usage model table

The following scalable usage table is used to determine the required value units per 1,000 chargeable users. The price per User Value Unit (UVU) will be different for each part number.

<table>
<thead>
<tr>
<th>Scalable usage level</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chargeable users</td>
<td>1-5K</td>
<td>&gt;5K-15K</td>
<td>&gt;15K-50K</td>
<td>&gt;50K-150K</td>
</tr>
<tr>
<td>User Value Units per 1,000 chargeable users</td>
<td>1,000</td>
<td>500</td>
<td>300</td>
<td>200</td>
</tr>
</tbody>
</table>
usage level | 5 | 6 | 7 | 8
---|---|---|---|---
Chargeable users | >150-500 | >500-1M | >1M-3M | >3M
User value units per 1,000 chargeable users | 100 | 50 | 25 | 10

The pricing model for Tivoli Identity and Access Manager V1.0 is enhanced to significantly reduce costs for many customers whose systems support a large number of external users. The price for these external users is not the same as for internal users. Select Tivoli Security Families now use a ratio of fifteen external users equal one chargeable user for the purpose of calculating UVUs. Each internal user equals one chargeable user for the purpose of calculating UVUs. Infrequent internal users that utilize their IDs less than five times a year, and are grouped so as to be trackable and auditable, will be granted a ratio of 15 infrequent internal users equal one chargeable user for the purpose of calculating Value Units.

Chargeable users are summed up and the volume tiering table then is utilized to calculate the total UVUs required to cover entitlements. With the release of Tivoli Access Manager for e-business V6.1, customers may mix internal users, external users and infrequent internal users within their total UVUs.

**Trade-up examples of mixing and matching to obtain total UVUs required to entitle an IT environment for Tivoli Identity and Access Manager**

**Example 1**

Assume a customer has existing entitlements for either Tivoli Identity Manager or Tivoli Access Manager, and would like to leverage this opportunity to trade up to Tivoli Identity and Access Manager at a very affordable price. Further assume the customer has entitled 12,000 company employees and 1,500,000 external users. All of these are authorized users. The total chargeable users are calculated as follows:

- 12,000 internal users = 12,000/1 = 12,000 chargeable users.
- 1,500,000 external users = 1,500,000/15 = 100,000 chargeable users.
- The customer must sum these chargeable users together and purchase trade-up UVUs required for a total of 112,000 chargeable users from Tivoli Identity Manager (or Tivoli Access Manager - dependent upon which one the customer currently has deployed in their environment) to Tivoli Identity and Access Manager V1.0.

If the customer grows to 20,000 company employees and finds that it only needs to entitle approximately 1,380,000 external users (customers, business partners, suppliers), then the total chargeable users are calculated as follows:

- 20,000 internal users = 20,000 chargeable users (20,000 chargeable users at 1:1).
- 1,380,000 external users = 1,380,000/15 = 92,000 chargeable users (at 15:1).
- The customer would still be covered with their entitlements, as their chargeable user total of 112,000 has not changed. This allows the customer flexibility to accommodate changes in their environment over time.

All of the UVUs from the current environment would be required to trade up to Tivoli Identity and Access V1.0 from either Tivoli Identity Manager or Tivoli Access Manager for e-business, to entitle their environment for 112,000 chargeable users. The UVU calculation would be as follows:

**IBM United States Software Announcement**

<table>
<thead>
<tr>
<th>Pricing metric</th>
<th>Chargeable users quantity in customer environment (A)</th>
<th>User Value Units per 1,000 chargeable users (B)</th>
<th>User Value Units required ((A) * (B))/1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1</td>
<td>5,000</td>
<td>1,000</td>
<td>5,000</td>
</tr>
<tr>
<td>Tier 2</td>
<td>10,000</td>
<td>500</td>
<td>5,000</td>
</tr>
<tr>
<td>Tier 3</td>
<td>35,000</td>
<td>300</td>
<td>10,500</td>
</tr>
<tr>
<td>Tier 4</td>
<td>62,000</td>
<td>200</td>
<td>12,400</td>
</tr>
<tr>
<td>Chargeable user total</td>
<td>112,000</td>
<td>User Value Units required to trade up</td>
<td>32,900</td>
</tr>
</tbody>
</table>

IBM is a registered trademark of International Business Machines Corporation

208-324
Note: The customer can leverage the appropriate trade-up part number in Passport Advantage to ensure they receive the price benefit they are entitled to as an existing customer of either Tivoli Identity Manager, or Tivoli Access Manager. The same example holds true regardless of which product is being traded up from.

Example 2

Transaction 1a

Another example has customer RED seeking to entitle their 15,000 employees, for which they wish to secure their environment for both Identity and Access with Tivoli Identity and Access Manager V1.0.

Transaction 1b

As a separate transaction they wish to entitle Tivoli Access Manager for e-Business to their 1,500,000 customers to grant access to their Web site. They do not need to secure their identity at this time.

The total chargeable users are calculated as follows:

Transaction 1a

Employees (Tivoli Identity and Access Manager V1.0)

• 15,000 internal users = 15,000/1 = 15,000 chargeable users

Transaction 1b

Customers (Tivoli Access Manager for e-business)

• 1,500,000 external users = 1,500,000/15 = 100,000 chargeable users

Customer RED would need to purchase User Value Units required to entitle 15,000 chargeable users of IBM Tivoli Identity and Access Manager V1.0 (which they plan to use for their employees) and then purchase UVUs required to entitle the 100,000 chargeable users for Tivoli Access Manager for e-business (which they plan to use for their customers).

Note: This is a fictional example of how a customer might choose to entitle their environment. A customer may implement to a specific type of user, mix of user types, or move between types of users as long as they remain within their entitlements.

UVUs for customer RED would be calculated as follows:

First, customer RED would purchase 10,000 UVUs of Tivoli Identity and Access Manager V1.0 to entitle their 15,000 employees (15,000 chargeable users).

Transaction 1a - Tivoli Identity and Access Manager V1.0 entitlements

<table>
<thead>
<tr>
<th>Pricing metric</th>
<th>Chargeable user quantity in customer environment (A)</th>
<th>User Value Units per 1,000 chargeable users (B)</th>
<th>User Value Units required ((A) * (B))/1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1</td>
<td>5,000</td>
<td>1,000</td>
<td>5,000</td>
</tr>
<tr>
<td>Tier 2</td>
<td>10,000</td>
<td>500</td>
<td>5,000</td>
</tr>
<tr>
<td>Tier 3</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chargeable user total</td>
<td>15,000</td>
<td>User Value Units required of Tivoli Identity and Access Manager</td>
<td>10,000</td>
</tr>
</tbody>
</table>

Second, customer RED would also purchase 30,500 UVUs of Tivoli Access Manager for e-business to entitle their 1,500,000 external users (100,000 chargeable users).

Transaction 1b - Tivoli Access Manager for e-business entitlements

<table>
<thead>
<tr>
<th>Pricing metric</th>
<th>Chargeable user</th>
<th>User Value</th>
<th>User Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1</td>
<td>5,000</td>
<td>1,000</td>
<td>5,000</td>
</tr>
<tr>
<td>Tier 2</td>
<td>10,000</td>
<td>500</td>
<td>5,000</td>
</tr>
<tr>
<td>Tier 3</td>
<td>300</td>
<td>300</td>
<td>300</td>
</tr>
</tbody>
</table>
quantity in |
| customer |
| Units per |
| environment (A) | 1,000 chargeable |
| Units required |
| ((A) * (B))/1,000 |

Tier 1 5,000 1,000 5,000
Tier 2 10,000 500 5,000
Tier 3 35,000 300 10,500
Tier 4 50,000 200 10,000

Chargeable user total 100,000 User Value Units required of Tivoli Access Manager for e-business 30,500

Transaction 2

One year after the first transaction, customer RED has made significant modifications to its Web sites and business infrastructure. Customer RED would now like to entitle their external users (which are currently using Tivoli Access Manager for e-business), for Tivoli Identity Manager as well.

The new total chargeable users that would be entitled for Tivoli Identity and Access Manager V1.0 in company RED’s environment would be 115,000 chargeable users (15,000 employees at 1:1 and 1,500,000 customers at 15:1). The total number of UVUs required of Tivoli Identity and Access Manager V1.0 would be calculated as follows:

Tivoli Identity and Access Manager V1.0

Pricing metric Chargeable user quantity in customer environment (A) User Value Units per 1,000 chargeable users (B) User Value Units required ((A) * (B))/1,000

Tier 1 5,000 1,000 5,000
Tier 2 10,000 500 5,000
Tier 3 35,000 300 10,500
Tier 4 65,000 200 13,500
Tier 5

Chargeable user total 115,000 User Value Units required of Tivoli Identity and Access Manager V1.0 33,500

Previous entitled chargeable user total 15,000 Current User Value Units of Tivoli Identity and Access Manager V1.0 10,000

User Value Units of Tivoli Identity and Access Manager V1.0 to acquire 23,500

Customer RED can trade up 23,500 of their 30,500 UVUs of Tivoli Access Manager for e-business to Tivoli Identity and Access Manager V1.0. Due to the benefit of volume tiering under one product, customer RED now has 7,000 remaining UVUs of Tivoli Access Manager for e-business that they can keep for additional growth, or let expire, allowing them to reinstate at a later date if the need arises.

Example 3

Customer YELLOW has 12,000 employees and wants to deploy both Tivoli Identity and Access Manager in their environment. The users that they are seeking to entitle are as follows:

- 12,000 internal users of LDAP and who access Web applications from HTTP and Java 2 Platform Enterprise Edition (J2EE) application servers for single sign-on
- 2,000 internal users of RACF® and who will also leverage Tivoli Access Manager resources
- 12,000 internal users of Lotus Notes®
- 12,000 internal users of SAP R3
Note: In addition to base license pricing, customer YELLOW will be required to separately purchase Tivoli Identity Manager Application and Host Edition adapters for integration with SAP and RACF, respectively. Entitlement to Lotus Notes is included in the base license of Tivoli Identity and Access Manager V1.0.

Calculate User Value Units as follows:

Customer YELLOW would purchase 8,500 UVUs of Tivoli Identity and Access Manager, 8,500 UVUs of Tivoli Identity Manager Application Edition (for SAP), and 2,000 User Value Units of Tivoli Identity Manager Host Edition (for RACF).

### Tivoli Identity and Access Manager - base license

<table>
<thead>
<tr>
<th>Pricing metric</th>
<th>Chargeable user quantity in customer environment (A)</th>
<th>User Value Units per 1,000 chargeable users (B)</th>
<th>User Value Units required ((A) * (B))/1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1</td>
<td>5,000</td>
<td>1,000</td>
<td>5,000</td>
</tr>
<tr>
<td>Tier 2</td>
<td>7,000</td>
<td>500</td>
<td>3,500</td>
</tr>
<tr>
<td>Tier 3</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tier 4</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chargeable user total</td>
<td>12,000</td>
<td>User Value Units required of Tivoli Identity and Access Manager</td>
<td>8,500</td>
</tr>
</tbody>
</table>

Customer YELLOW would also purchase 8,500 UVUs of Tivoli Identity and Access Manager Application Edition for entitlement to manage 12,000 users of SAP.

### Tivoli Identity and Access Manager - Application Edition

<table>
<thead>
<tr>
<th>Pricing metric</th>
<th>Chargeable user quantity in customer environment (A)</th>
<th>User Value Units per 1,000 chargeable users (B)</th>
<th>User Value Units required ((A) * (B))/1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1</td>
<td>5,000</td>
<td>1,000</td>
<td>5,000</td>
</tr>
<tr>
<td>Tier 2</td>
<td>7,000</td>
<td>500</td>
<td>3,500</td>
</tr>
<tr>
<td>Tier 3</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tier 4</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chargeable user total</td>
<td>12,000</td>
<td>User Value Units required of Tivoli Identity and Access Manager - Application Edition</td>
<td>8,500</td>
</tr>
</tbody>
</table>

Customer YELLOW would also purchase 2,000 User Value Units of Tivoli Identity and Access Manager Host Edition for entitlement to manage 2,000 users of RACF.

### Tivoli Identity and Access Manager - Host Edition

<table>
<thead>
<tr>
<th>Pricing metric</th>
<th>Chargeable user quantity in customer environment (A)</th>
<th>User Value Units per 1,000 chargeable users (B)</th>
<th>User Value Units required ((A) * (B))/1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1</td>
<td>2,000</td>
<td>1,000</td>
<td>2,000</td>
</tr>
<tr>
<td>Tier 2</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tier 3</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tier 4</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chargeable User Total</td>
<td>2,000</td>
<td>New User Value Unit total required Tivoli Identity and Access Manager - Host Edition</td>
<td>2,000</td>
</tr>
</tbody>
</table>
New and trade-up examples of per Processor Value Unit based pricing of Tivoli Identity and Access Manager V1.0

Example 1

A financial services company has 200,000 employees in 15 countries worldwide, half of them in the Americas. They also have approximately five million customers, business partners, and suppliers worldwide as well. The company decided that they would purchase Processor Value Units of Tivoli Identity and Access Manager V1.0 to cover a 4-way server in the Americas, a 2-way in Europe, the Middle-East and Asia, and a 2-way server in Asia Pacific. Processor Value Unit entitlements would be required as follows:

- Two 2-way servers, one each in Asia Pacific and Europe, the Middle East, and Asia to run Tivoli Identity and Access Manager V1.0
- One 4-way server to run the Tivoli Identity and Access Manager V1.0 in the Americas

The customer will be required to purchase the appropriate number of Processor Value Units (PVUs) to entitle the total number of processors as identified in the following table.

<table>
<thead>
<tr>
<th>Tivoli Identity and Access Manager 1.0 server</th>
<th>Quantity in customer environment</th>
<th>Total processors requiring PVUs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-way</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>4-way</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

Total processors for calculating PVUs to order: 8

In this example, the appropriate number of Processor Value Units must be purchased to entitle the eight processors.

For more information on Processor Value Units (PVUs) access the following


Note: As with the per User Value Unit priced products, customers who own PVU entitlements to either Tivoli Identity Manager or Tivoli Access Manager may trade up to the full Tivoli Identity and Access Manager V1.0 by purchasing trade-up entitlements for their existing PVUs (from one or the other to the full Tivoli Identity and Access Manager V1.0).

IBM Tivoli Unified Single Sign-On pricing examples

Scenario 1

Transaction 1

A financial services company has 20,000 employees in 15 countries worldwide, half of them in the Americas. Last year, the company implemented an intranet for their Americas employees. At that time, they purchased entitlements for 10,000 internal users for Tivoli Access Manager for e-business. User Value Units required are as follows:

The customer initially purchased 7,500 User Value Units of Tivoli Access Manager to entitle their 10,000 internal users in the Americas. (Note: Each internal user equals one chargeable user for the purpose of calculating User Value Units to order).

Initial Tivoli Access Manager entitlements

<table>
<thead>
<tr>
<th>Pricing metric</th>
<th>Chargeable user quantity in customer environment (A)</th>
<th>User Value Units per 1,000 chargeable users (B)</th>
<th>User Value Units required ((A) * (B))/1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1</td>
<td>5,000</td>
<td>1,000</td>
<td>5,000</td>
</tr>
<tr>
<td>Tier 2</td>
<td>5,000</td>
<td>0.500</td>
<td>2,500</td>
</tr>
<tr>
<td>Tier 3</td>
<td>3,300</td>
<td>0.300</td>
<td>1,000</td>
</tr>
<tr>
<td>Chargeable user total</td>
<td>10,000</td>
<td>New User Value Units required</td>
<td>7,500</td>
</tr>
</tbody>
</table>
The following summer, the company decided to expand their Web single sign-on capabilities to the approximately 10,000 full-time employees of their affiliated companies outside the Americas (greater than 50% owned by the parent company). The objective is to ensure that an employee of the company can automatically login to online systems of their affiliates through federation.

To overcome these issues, the company is looking at plans to deploy Tivoli Federated Identity Manager to enable employees federated access to affiliate systems, and further plans to deploy Tivoli Access Manager for Enterprise Single Sign-On to alleviate password and login issues. In evaluating all alternatives, the customer decided to deploy unified single sign-on for all its employees, using the following configuration:

- Upgrade their 10,000 user entitlements for Tivoli Access Manager for e-business to Tivoli Unified Single Sign-On by purchasing the trade-up part numbers from Tivoli Access Manager for e-business to Tivoli Unified Single Sign-On.
- Purchase additional entitlements of Tivoli Unified Single Sign-On for the remaining 10,000 users worldwide.

Note: Each internal user equals one chargeable user for the purpose of calculating User Value Units to order.

The Customer would trade up their 7,500 User Value Units of Tivoli Access Manager for e-business to Tivoli Unified Single Sign-On to entitle their 10,000 internal users. They would then purchase an additional 4,000 User Value Units of Tivoli Unified Single Sign-On to entitle their entire environment (remaining 10,000 users for a total of 20,000 users). The estimate of User Value Units to purchase are as follows:

<table>
<thead>
<tr>
<th>Tivoli Unified Single Sign-On</th>
<th>Pricing metric</th>
<th>Chargeable user quantity in customer environment (A)</th>
<th>User Value Units per 1,000 chargeable users (B)</th>
<th>User Value Units required ((A) * (B))/1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1</td>
<td>5,000</td>
<td>1,000</td>
<td>5,000</td>
<td></td>
</tr>
<tr>
<td>Tier 2</td>
<td>10,000</td>
<td>500</td>
<td>5,000</td>
<td></td>
</tr>
<tr>
<td>Tier 3</td>
<td>5,000</td>
<td>300</td>
<td>1,500</td>
<td></td>
</tr>
<tr>
<td>Chargeable user total</td>
<td>20,000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Previous chargeable user total</td>
<td>10,000</td>
<td>User Value Units required of Tivoli Unified Single Sign-On</td>
<td>11,500</td>
<td></td>
</tr>
</tbody>
</table>

(7,500)

Additional User Value Units required of Tivoli Unified Single Sign-On

A pan-European insurance provider, specializing in disability insurance, has grown through acquisitions of mid-size insurance agencies. Through its acquisitions, it has grown from 10,000 agents to a large network of 20,000 full-time agents and another 30,000 part-time contract agents.

Because of its aggressive acquisition strategy, this customer has inherited a complex heterogeneous infrastructure with many, often duplicate, applications. Employees need to login to an average of more than 10 applications, and adhere to often conflicting password policies.
To improve user satisfaction and password security, the customer deployed Tivoli Access Manager for Enterprise Single Sign-On last year to 10,000 of its full time agents. As per previous examples, these 10,000 internal users (employees) required the purchase of 7,500 User Value Units in order to entitle these agents. (Note: Each internal user equals one chargeable user for the purpose of calculating User Value Units to order).

Transaction 2

With the recent availability of Tivoli Unified Single Sign-On, this customer decided to not only extend enterprise single sign-on to all its full-time agents, but also deploy an extranet for all its part-time agents.

The customer is looking to do the following to entitle their environment:

- Trade up their 7,500 User Value Units of Tivoli Access Manager for Enterprise Single Sign-On that currently entitles 10,000 existing internal users (10,000 chargeable users) to Tivoli Unified Single Sign-On.
- Purchase Tivoli Unified Single Sign-On entitlements for the remaining 10,000 internal users (full-time agents, again at 1:1). This would equate to another 10,000 chargeable users.
- Purchase entitlements for the remaining 30,000 external users (part-time contract agents), also for Tivoli Unified Single Sign-On. When calculating users to charge for, 15 external users equals 1 user to charge for. In this case, the 30,000 part-time contract agents would equal 2,000 chargeable users for calculating User Value Units to order.

For calculating User Value Units, the internal users to charge for (at 1:1), and the external users to charge for (at 15:1) must be added together before entering into the scalable tiering table. The insurance company must entitle 22,000 chargeable users.

The customer would trade up their 7,500 User Value Units of Tivoli Access Manager for Enterprise Single Sign-On to Tivoli Unified Single Sign-On. They would then purchase an additional 4,600 User Value Units of Tivoli Unified Single Sign-On to entitle their entire environment of 22,000 chargeable users (20,000 full-time internal and 30,000 part-time external).

The estimate of User Value Units to purchase are as follows:

<table>
<thead>
<tr>
<th>Pricing metric</th>
<th>Chargeable user quantity in customer environment (A)</th>
<th>User Value Units per 1,000 chargeable users (B)</th>
<th>User Value Units required ((A) * (B))/1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1</td>
<td>5,000</td>
<td>1,000</td>
<td>5,000</td>
</tr>
<tr>
<td>Tier 2</td>
<td>10,000</td>
<td>500</td>
<td>5,000</td>
</tr>
<tr>
<td>Tier 3</td>
<td>7,000</td>
<td>300</td>
<td>2,100</td>
</tr>
<tr>
<td>Chargeable user total</td>
<td>22,000</td>
<td>User Value Units required of Tivoli Unified Single Sign-On</td>
<td>12,100</td>
</tr>
</tbody>
</table>

Previous chargeable user total

<table>
<thead>
<tr>
<th>Previous chargeable user total</th>
<th>Less trade-up User Value Unit purchases from Transaction 1</th>
<th>Additional User Value Units required of Tivoli Unified Single Sign-On</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000</td>
<td>(7,500)</td>
<td>4,600</td>
</tr>
</tbody>
</table>

Other information

Tivoli User Value Unit priced products have a minimum order quantity of 250 users for fewer than 1,000 chargeable users in the scalable usage model. After the first 1,000 chargeable users, order quantities are in increments of 1,000 users to charge for. For example, 1,650 chargeable users are rounded up to 2,000 chargeable users for the purpose of calculating User Value Units (UVUs) to order.
In order to enable existing customers to take advantage of the savings available by purchasing Tivoli Unified Single Sign-On, trade ups to Tivoli Unified Single Sign-On are available from the following Tivoli per User Value Unit priced products:

- Tivoli Federated Identity Manager
- Tivoli Access Manager for e-business
- Tivoli Access Manager for Enterprise Single Sign-On Suite

Ordering information

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

Product group: IBM Tivoli Security
Product: IBM Tivoli Identity and Access Manager V1.0
Identifier Description (PID): 5724W00
Product: IBM Tivoli Unified Single Sign-On V1.0
Identifier Description (PID): 5724-W01
Product category: IBM Tivoli Security

Passport Advantage trade up

Below is a list of precursor products for which you must have already acquired a license, in order to be eligible to acquire equivalent licenses using the trade-up part numbers.

**IBM Tivoli Identity and Access Manager**

<table>
<thead>
<tr>
<th>Precursor product</th>
<th>Trade-up product</th>
<th>Trade-up part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli Identity Manager</td>
<td>Tivoli Identity &amp; Access Mgr</td>
<td>D06DLLL</td>
</tr>
<tr>
<td>User VU</td>
<td>User VU</td>
<td></td>
</tr>
<tr>
<td>Lic + SW S&amp;S 12 Mos</td>
<td>Lic + SW S&amp;S 12 Mos</td>
<td></td>
</tr>
<tr>
<td>Tivoli Access Mgr for</td>
<td>Tivoli Identity &amp; Access Mgr</td>
<td>D06DMLL</td>
</tr>
<tr>
<td>ebusiness User VU</td>
<td>User VU</td>
<td></td>
</tr>
<tr>
<td>Lic + SW S&amp;S 12 Mos</td>
<td>Lic + SW S&amp;S 12 Mos</td>
<td></td>
</tr>
<tr>
<td>Tivoli Identity Manager</td>
<td>Tivoli Identity &amp; Access Mgr</td>
<td>D06DHLL</td>
</tr>
<tr>
<td>Processor VU</td>
<td>Processor VU</td>
<td></td>
</tr>
<tr>
<td>Lic + SW S&amp;S 12 Mos</td>
<td>Lic + SW S&amp;S 12 Mos</td>
<td></td>
</tr>
<tr>
<td>Tivoli Access Mgr for</td>
<td>Tivoli Identity &amp; Access Mgr</td>
<td>D06DILL</td>
</tr>
<tr>
<td>ebusiness Processor VU</td>
<td>Processor VU</td>
<td></td>
</tr>
<tr>
<td>Lic + SW S&amp;S 12 Mos</td>
<td>Lic + SW S&amp;S 12 Mos</td>
<td></td>
</tr>
</tbody>
</table>

**Tivoli Unified Single Sign-On**

<table>
<thead>
<tr>
<th>Precursor product</th>
<th>Trade-up product</th>
<th>Trade-up part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli Federated Identity Mgr User VU</td>
<td>Tivoli Unified Single Sign-On</td>
<td>D06DULL</td>
</tr>
<tr>
<td>Lic + SW S&amp;S 12 Mos</td>
<td>User VU</td>
<td></td>
</tr>
<tr>
<td>Tivoli Access Mgr for</td>
<td>Tivoli Unified Single Sign-On</td>
<td>D06DVLL</td>
</tr>
<tr>
<td>Enterprise Single Sign-On Suite User VU</td>
<td>User VU</td>
<td></td>
</tr>
<tr>
<td>Lic + SW S&amp;S 12 Mos</td>
<td>Lic + SW S&amp;S 12 Mos</td>
<td></td>
</tr>
<tr>
<td>Tivoli Access Manager for</td>
<td>Tivoli Unified Single Sign-On</td>
<td>D06DWLL</td>
</tr>
<tr>
<td>ebusiness User VU</td>
<td>User VU</td>
<td></td>
</tr>
<tr>
<td>Lic + SW S&amp;S 12 Mos</td>
<td>Lic + SW S&amp;S 12 Mos</td>
<td></td>
</tr>
</tbody>
</table>

Consult your IBM representative if you have any questions.

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.
Tivoli Identity and Access Manager

Entitled maintenance offerings description

Tivoli Identity & Access Manager User VU
Tivoli Identity & Access Manager User VU Linux for System z
Tivoli Identity & Access Manager Unlimited User Option Processor VU
Tivoli Identity & Access Manager Unlimited User Option Processor VU Linux for System z

Media packs description Part number

Tivoli Identity & Access Manager V1.0 BJ0QVML
Multilingual, Multiplatform CD-ROM Media Pack
Entitled maintenance offerings description offerings description

Tivoli Unified Single Sign-On User Value Unit

Media packs description Part number

Tivoli Unified Single Sign-On V1.0 BJ0QWML
Multilingual, Multiplatform CD-ROM Media Pack

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

IBM Tivoli Identity and Access Manager

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli Identity &amp; Access Mgr</td>
<td>D06DJLL</td>
</tr>
<tr>
<td>User VU Lic + SW S&amp;S 12 Mo</td>
<td></td>
</tr>
<tr>
<td>Tivoli Identity &amp; Access Mgr</td>
<td>E05TLLL</td>
</tr>
<tr>
<td>User VU Annual SW S&amp;S RNWL</td>
<td></td>
</tr>
<tr>
<td>Tivoli Identity &amp; Access Mgr</td>
<td>D06DKLL</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
User VU SW S&S Reinstate 12 Mo
Tivoli Identity & Access Mgr
User VU Linux on System z
Lic + SW S&S 12 Mo
D06DNLL

Tivoli Identity & Access Mgr
User VU Linux on System z
Annual SW S&S
E0STMLL

Tivoli Identity & Access Mgr
User VU Linux on System z
SW S&S Reinstate
D06DPLL

Tivoli Identity & Access Mgr
Unlimited User Option
Processor VU Lic + SW S&S 12 Mo
D06DFLL

Tivoli Identity & Access Mgr
Unlimited User Option
Processor VU Annual SW S&S RNWL
E05TKLL

Tivoli Identity & Access Mgr
Unlimited User Option
Processor VU SW S&S Reinstate 12 Mo
D06DGLL

Tivoli Identity & Access Mgr
Unlimited User Option
Processor VU Linux on System z
Lic + SW S&S 12 Mo
D06ETLL

Tivoli Identity & Access Mgr
Unlimited User Option
Processor VU Linux on System z
Annual SW S&S
E05U2LL

Tivoli Identity & Access Mgr
Unlimited User Option
Processor VU Linux on System z
SW S&S Reinstate
D06EWLL

Tivoli Identity & Access Mgr
Application Edition
User VU Lic + SW S&S 12 Mo
D06ESLL

Tivoli Identity & Access Mgr
Application Edition
User VU Annual SW S&S RNWL
E05U1LL

Tivoli Identity & Access Mgr
Application Edition
User VU SW S&S Reinstate 12 Mo
D06EVLL

Tivoli Identity & Access Mgr
Host Edition
User VU Lic + SW S&S 12 Mo
D06EULL

Tivoli Identity & Access Mgr
Host Edition
User VU Annual SW S&S RNWL
E05U3LL

Tivoli Identity & Access Mgr
Host Edition
User VU SW S&S Reinstate 12 Mo
D06EXLL

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli Identity &amp; Access Manager v1.0 Multilingual, Multiplatform CD-ROM Media Pack</td>
<td>BJ0QVML</td>
</tr>
</tbody>
</table>
### Tivoli Unified Single Sign-On

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli Unified Single Sign-On</td>
<td>D06DSLL</td>
</tr>
<tr>
<td>User VU Lic + Sw S&amp;S 12 Mo</td>
<td></td>
</tr>
<tr>
<td>Tivoli Unified Single Sign-On</td>
<td>E05TNLL</td>
</tr>
<tr>
<td>User VU Annual Sw S&amp;S RNWL</td>
<td></td>
</tr>
<tr>
<td>Tivoli Unified Single Sign-On</td>
<td>D06DTLL</td>
</tr>
<tr>
<td>User VU Sw S&amp;S Reinstate 12 Mo</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli Unified Single Sign-On V1.0</td>
<td>BJ0QWML</td>
</tr>
<tr>
<td>Multilingual, Multiplatform CD-ROM Media Pack</td>
<td></td>
</tr>
</tbody>
</table>

The Tivoli Identity and Access Manager and Tivoli Unified Single Sign-On are also available, via Web download, from Passport Advantage.

### 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.

### 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.

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

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