IBM Security Directory Suite V8.0 delivers integrated and highly scalable LDAP based solution with tools to help consolidate identity silos

Table of contents

1 Overview                          4 Technical information
2 Key prerequisites                 5 Ordering information
2 Planned availability date        12 Terms and conditions
2 Description                       16 Prices
3 Program number                   17 Order now
4 Publications

At a glance

IBM® Security Directory Suite V8.0 helps enterprises rapidly create a single authoritative source out of their silos of identities. The solution is now available as a virtual appliance for easier deployment and faster time to value.

Directory Suite is an integrated offering that replaces the following products:

- IBM Security Directory Integrator
- IBM Security Directory Server

Order now

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 Security Directory Suite V8.0 delivers a solid directory foundation that can help provide a trusted identity data infrastructure that enables mission-critical security and authentication. It offers a reliable, scalable, standards-based identity data platform. Directory Suite supports Lightweight Directory Access Protocol (LDAP) V3, offering a very flexible yet highly scalable LDAP infrastructure. It also has robust open architecture integration capability that synchronizes and exchanges information across multiple applications, directories, and databases, providing a single authoritative enterprise-level view of identity or generic data.

What is new

- A virtual appliance form factor, making it simpler to deploy
- A robust migration capability to aid migration from the IBM Security Directory Server software stack to the Directory Suite virtual appliance model
- Multitenancy support to enable deployment in cloud environments
- Remote IBM DB2® configuration for ease of deployment and migration
- Enhanced replication functionality for easier administration
Key prerequisites

Refer to the Hardware requirements section and the Software requirements section for details.

Planned availability date

December 11, 2015: For electronic availability
January 11, 2016: For physical availability

Description

IBM Security Directory Suite V8.0 offers a reliable, scalable, standards-based identity data platform that interoperates with a broad range of applications. It supports Lightweight Directory Access Protocol (LDAP) V3. A solid directory foundation can provide a trusted identity data infrastructure that is scalable and enables mission-critical security and authentication.

Directory Suite capabilities:

- Simplified deployment and maintenance of directory capabilities with a new virtual appliance form factor. The virtual appliance frees organizations to focus on enabling business with a robust identity platform instead of deploying and maintaining a complex software stack.
- Quick and effective integration of data residing in heterogeneous directories, databases, files, collaborative systems, and applications. This integration capability helps create an authoritative identity data infrastructure that can accelerate the deployment of critical business on demand applications such as identity management, access management, and portal solutions.
- Representational State Transfer (REST) interface, so third-party applications can use the integration capabilities of Directory Suite as a service.
- Robust replication, including the ability to configure multiple master copies, to provide highly available implementations for global enterprise 24 x 7 support for important business applications. A field showing the last successful authentication timestamp is added to the replication topology and a new master can be added to the replication topology without any downtime.
- Auditing and reporting capabilities that provide in-depth visibility into the repository.
- Multitenancy support for the Smart Common Input Method (SCIM) service to enable cloud environments.

In addition, Directory Suite offers increased data protection, scalability, and performance for all its database intensive operations which, based on IBM DB2 technology, is designed to manage data more effectively and efficiently. Greater availability is delivered through enhancements, such as online, automated database reorganization. In addition, the increased scalability and the ability to leverage the latest in server technology helps deliver increased performance of backup and recovery processes.

IBM Security Directory Suite V8.0 options:

- **IBM Security Directory Suite Enterprise Edition** is available for purchase using either a Processor Value Unit or a User Value Unit charge metric. Existing
customers of IBM Tivoli® Directory Integrator will receive entitlement to Directory Suite Enterprise Edition.

Users of Directory Server, who wish to upgrade to the new virtual appliance platform in Directory Suite V 8.0, can take advantage of the scripts provided that help organizations migrate from multiple older versions of Directory Server to the Directory Suite virtual appliance platform. The Directory Suite virtual appliance supports DB2 databases external to the appliance itself (in addition to the internal DB2 database). Therefore, a user can upgrade to Directory Suite with an existing external DB2 database, thus eliminating the need for a DB2 database migration at the time of the upgrade.

Reference information


Availability of national languages

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Program number

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Education support

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training website

http://www.ibm.com/services/learning/

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Offering Information

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
Publications

The IBM Security Directory Suite V8.0 Quick Start Guide (English) is shipped on the product DVD.

Directory Suite English publications may be viewed online, at electronic availability, from the IBM Knowledge Center at

http://www.ibm.com/support/knowledgecenter/SS3Q78_8.0.0/com.ibm.IBMDS.doc_8.0.0/welcome.html

Services

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/

Technical information

Specified operating environment

Hardware requirements

Hardware requirements can be found, at electronic availability, at

http://www-969.ibm.com/software/reports/compatibility/clarity/hardwareReqsForProduct.html

Software requirements

Software requirements can be found, at electronic availability, at


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. Such information is provided subject to the following Statement of Good Security Practices: IT system security involves protecting systems and information through prevention, detection and, response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, misappropriated, or misused, or can result in damage to or misuse of your systems, including for use in attacks on others. No IT system or product should be considered completely secure and no single product, service, or security measure can be completely effective in preventing improper use or access. IBM systems, products, and services are designed to be part of a lawful, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.
Important: IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

**IBM Electronic Support**

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement. Read about the Electronic Support portfolio of tools

http://www.ibm.com/electronicsupport

Access the IBM Support Portal

https://www.ibm.com/support/entry/portal/support

Access the online Service Request tool

http://www.ibm.com/support/servicerequest

**Planning information**

**Packaging**

IBM Security Directory Suite is distributed with:

- International Program License Agreement (Z125-3301)
- License Information document
- 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.

**Direct customer support**

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.

**Ordering information**

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

These products may only be sold directly by IBM or by authorized IBM Business Partners for Software Value Plus.
For more information about IBM Software Value Plus, visit
http://www.ibm.com/partnerworld/page/svpAuthorizedPortfolio

To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, visit
http://www.ibm.com/partnerworld/wps/bplocator/

Product group: IBM Security

Product: IBM Security Directory Suite V8.0 (5725-Y17)

Product category: Security Directory Suite

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### IBM Security Directory Suite V8.0 pricing examples

**Scenario 1: IBM Security Directory Suite Enterprise Edition V8.0 for employees (User Value Unit (UVU))**

A bank is using Directory Suite Enterprise Edition for an environment comprised of 3 connected systems with a total of 12,000 unique employee users.

- The 12,000 users are employees so they are considered internal users.
- Using the second tier of the UVU conversion table below, 12,000 users converts to 5,000 UVUs + 0.5 UVU * (12,000 users - 5,000 users) = 8,500 UVU.

User Value Unit conversion table

- For 1 to 5,000 Users, 1.00 UVU per User
- For 5,001 to 15,000 Users, 5,000 UVUs plus 0.50 UVUs per User above 5,000
- For 15,001 to 50,000 Users, 10,000 UVUs plus 0.30 UVUs per User above 15,000
- For 50,001 to 150,000 Users, 20,500 UVUs plus 0.20 UVUs per User above 50,000
- For 150,001 to 500,000 Users, 40,500 UVUs plus 0.10 UVUs per User above 150,000
- For 500,001 to 1,000,000 Users, 75,500 UVUs plus 0.05 UVUs per User above 500,000
- For 1,000,001 to 3,000,000 Users, 100,500 UVUs plus 0.025 UVUs per User above 1,000,000
- For greater than 3,000,000 Users, 150,500 UVUs plus 0.01 UVUs per User above 3,000,000

**Scenario 2: Directory Suite V 8.0 Enterprise Edition with infrequent and external users (UVU)**

Transaction 1: A large enterprise is using Directory Suite Enterprise Edition for an environment comprised of 3 connected systems with 9,000 unique employee users and 45,000 infrequent factory employees (usage less than 5 times per year).

The chargeable authorized users are counted as follows:

- The 9,000 employee users are internal users and enter into the UVU calculation at a 1:1 ratio.
- The 45,000 infrequent factory workers (infrequent internal users) equate to 3,000 users (at 15 infrequent internal users equals 1 internal user, whose usage must be trackable and auditable at less than 5 times per year).
- 9,000 users + 3,000 users = 12,000 users.
• Using the second tier of the UVU conversation table above, 12,000 users converts to 5,000 UVUs + 0.5 UVU * (12,000 users - 5,000 users) = 8,500 UVUs.

Transaction 2: Six months after transaction 1, the enterprise decides to use Directory Suite Enterprise Edition for its customer environment, which includes 1,500,000 customer users in addition to the existing internal users calculated above.

• 12,000 internal users (refer to transaction 1 for details).
• 1,500,000 external users = 1,500,000/15 = 100,000 users (external users convert to users at a ration of 15 external users to 1 user).
• 12,000 users + 100,000 users = 112,000 users.
• Using the fourth tier of the UVU conversation table in scenario 1, 112,000 users converts to 20,500 UVUs + 0.2 UVU * (112,000 users - 50,000 users) = 32,900 UVUs.
• The customer already owns 8,500 UVUs from transaction 1 so must purchase an additional 32,900 UVU - 8,500 UVU = 24,400 UVU.

Scenario 3: Unify identity silos with Directory Suite Enterprise Edition V8.0 (UVU)

An organization wants to create a single authoritative data source of its employees using the Federated Directory Server feature of Directory Suite Enterprise Edition V8.0. The single authoritative data source would be used for the following:

• A White Pages application
• A user registry for IBM Security Access Manager
• Used by third-party non-IBM application for accessing the user information

At present, the data is distributed across the enterprise:

• 3,000 employees are maintained in Active Directory.
• 2,000 users are being managed in a DB2 database.
• 1,200 users are in flat files coming from legacy applications. At the same time, 200 users of flat file system overlap with the users present in DB2.
• 6,000 users are present in another LDAP application.

To calculate the UVUs required:

• 3,000 unique users from Active Directory + 2,000 from DB2 + 1,200 from flat file - 200 from flat file overlapping with DB2 + 6,000 from third party LDAP = 12,000 unique internal users.
• Since all the users are internal, the client would purchase 8,500 User Value Units of Directory Suite Enterprise Edition as described in scenario 1.


An airline is implementing a directory solution to store identity data for their employees and provide a White Pages application. It is important that the solution be deployed in a high availability configuration. They will deploy four Intel® Core i5 servers to support the directory environment.

• Each core of an Intel Core i5 server is 70 PVU (see link below for server PVU calculation).
• The Intel Core i5 has 4 processor cores so each server is 4 core x 70 PVU per core = 280 PVU.
• The airline is implementing 4 servers x 280 PVU per server = 1,120 PVU of Directory Suite Standard Edition.

For details about how to calculate PVUs from a server, refer to the PVU table at http://www-01.ibm.com/software/lotus/passportadvantage/pvu/licensing_for_customers.html
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.

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Cross-platform product for use on z Systems™ Integrated Facility for Linux™ (IFL) engines or zEnterprise® BladeCenter Extension

Order the part numbers that follow when the product is intended to run on zEnterprise BladeCenter Extension or the Linux operating system on z Systems IFL engines. If the product is not intended to run in these environments, order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

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IBM is clarifying the definitions for establishing the number of UVUs that must be licensed, when counting Infrequent and External users.

Definitions updates

The Users for the purposes of UVU calculation are the sum of all Internal Users, External Users, and Infrequent Users given access to the program or whose access is managed by the program.

- An Internal User is a unique person who is given access to the program or whose access is managed by the program and is an employee of the licensee or a contractor performing work on behalf of the licensee. Each Internal User equals one User for the purpose of calculating User Value Units.
- An External User is a unique person that is given access to the program or whose access is managed by the program and is not an employee of the licensee or a contractor performing work on behalf of the licensee. A ratio of 15 External Users equals 1 User for the purpose of calculating User Value Units.
• An Infrequent Internal User is an Internal User who accesses the program or whose access is managed by the program less than five times a year. A ratio of 15 Infrequent Internal Users equals 1 User for the purpose of calculating User Value Units.
• Each Internal, External and Infrequent Internal User must be trackable and auditable.

**User definitions for Service Provider**

If the licensee is a Service Provider as defined in the International Passport Advantage or the International Passport Advantage Express Agreement, the UVU calculation must be based upon the following:

• For each user customer of the Service Provider, an Internal User is a unique person who is given access to the program or whose access is managed by the program through or as part of the Service Provider's information technology service, and is an employee of the user customer or a contractor performing work on behalf of the user customer. Each Internal User equals one User for the purpose of calculating User Value Units.
• For each user customer of the Service Provider, an External User is a unique person who is given access to the program or whose access is managed by the program through or as part of the Service Provider's information technology service, and is not an employee of the end user customer or a contractor performing work on behalf of the end user customer. A ratio of 15 External Users equals 1 User for the purpose of calculating User Value Units.
• For each user customer of the Service Provider, an Infrequent Internal User is an Internal User who is given access to the program or whose access is managed by the program through or as part of the Service Provider's information technology service less than five times per year. A ratio of 15 Infrequent Internal Users equals 1 User for the purpose of calculating User Value Units.
• For each end user customer of the Service Provider, each Internal, External, and Infrequent Internal User must be trackable and auditable.

Users who no longer have access to the program and whose access is no longer managed by the program, but whose identities are retained in the user registry for archival and audit purposes, are not counted for purposes of UVU calculation. User identities must be trackable and auditable.

**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 program specific table. 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. Refer to the program specific UVU table.

**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 value, brand, type, and model number at the website below) 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 (socket). A dual-core processor chip, for example, has two processor cores. The PVU table can be found at


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 web page 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


* An activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

Notes:

- Some programs may require licenses for the program and what is being managed. In that case, the following applies. In addition to the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- Some programs may be licensed on a managed basis only. In that case, the following applies. Instead of the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies. Rather than obtaining entitlements for the activated processor cores available to the program, licensee must obtain PVU entitlements for this program sufficient to cover the environment made available to the referenced program as if the program itself were executing everywhere the referenced program was executing, independent of the basis on which the referenced program is licensed.

**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.

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This software license includes Software Subscription and Support (also referred to as Software Maintenance).

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These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as
access to updates, releases, and versions of the program as long as support is in effect.

**License Information number**


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


**Limited warranty applies**

Yes

**Limited warranty**

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**System i Software Maintenance applies**

No

**Variable charges apply**

No

**Educational allowance available**

Not applicable.

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