

IBM® Security Access Manager for Enterprise Single
Sign-On
Version 8.2.1

Epic Integration Guide



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Note

Before using this information and the product it supports, read the information in "Notices" on page 13.

Edition notice

Note: This edition applies to version 8.2.1 of IBM Security Access Manager for Enterprise Single Sign-On, (product number 5724-V67) and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this publication

IBM Security Access Manager for Enterprise Single Sign-On Epic Integration Guide provides information about the IBM® Security Access Manager for Enterprise Single Sign-On and Epic integration, including supported workflows, configurations, and deployment.

Access to publications and terminology

This section provides:

- A list of publications in the “IBM Security Access Manager for Enterprise Single Sign-On library.”
- Links to “Online publications” on page viii.
- A link to the “IBM Terminology website” on page viii.

IBM Security Access Manager for Enterprise Single Sign-On library

The following documents are available in the IBM Security Access Manager for Enterprise Single Sign-On library:

- *IBM Security Access Manager for Enterprise Single Sign-On Quick Start Guide*, CF3T3ML

IBM Security Access Manager for Enterprise Single Sign-On Quick Start Guide provides a quick start on the main installation and configuration tasks to deploy and use IBM Security Access Manager for Enterprise Single Sign-On.

- *IBM Security Access Manager for Enterprise Single Sign-On Planning and Deployment Guide*, SC23995206

IBM Security Access Manager for Enterprise Single Sign-On Planning and Deployment Guide contains information about planning your deployment and preparing your environment. It provides an overview of the product features and components, the required installation and configuration, and the different deployment scenarios. It also describes how to achieve high availability and disaster recovery. Read this guide before you do any installation or configuration tasks.

- *IBM Security Access Manager for Enterprise Single Sign-On Installation Guide*, GI11930904

IBM Security Access Manager for Enterprise Single Sign-On Installation Guide provides detailed procedures on installation, upgrade, or uninstallation of IBM Security Access Manager for Enterprise Single Sign-On.

This guide helps you to install the different product components and their required middleware. It also includes the initial configurations that are required to complete the product deployment. It covers procedures for using virtual appliance, WebSphere® Application Server Base editions, and Network Deployment.

- *IBM Security Access Manager for Enterprise Single Sign-On Configuration Guide*, GC23969204

IBM Security Access Manager for Enterprise Single Sign-On Configuration Guide provides information about configuring the IMS Server settings, the AccessAgent user interface, and its behavior.

- *IBM Security Access Manager for Enterprise Single Sign-On Administrator Guide, SC23995105*

This guide is intended for the Administrators. It covers the different Administrator tasks. *IBM Security Access Manager for Enterprise Single Sign-On Administrator Guide* provides procedures for creating and assigning policy templates, editing policy values, generating logs and reports, and backing up the IMS Server and its database. Use this guide together with the *IBM Security Access Manager for Enterprise Single Sign-On Policies Definition Guide*.

- *IBM Security Access Manager for Enterprise Single Sign-On Policies Definition Guide, SC23969404*

IBM Security Access Manager for Enterprise Single Sign-On Policies Definition Guide provides detailed descriptions of the different user, machine, and system policies that Administrators can configure in AccessAdmin. Use this guide along with the *IBM Security Access Manager for Enterprise Single Sign-On Administrator Guide*.

- *IBM Security Access Manager for Enterprise Single Sign-On Help Desk Guide, SC23995304*

This guide is intended for Help desk officers. *IBM Security Access Manager for Enterprise Single Sign-On Help Desk Guide* provides Help desk officers information about managing queries and requests from users usually about their authentication factors. Use this guide together with the *IBM Security Access Manager for Enterprise Single Sign-On Policies Definition Guide*.

- *IBM Security Access Manager for Enterprise Single Sign-On User Guide, SC23995005*

This guide is intended for the users. *IBM Security Access Manager for Enterprise Single Sign-On User Guide* provides instructions for using AccessAgent and Web Workplace.

- *IBM Security Access Manager for Enterprise Single Sign-On Troubleshooting and Support Guide, GC23969303*

IBM Security Access Manager for Enterprise Single Sign-On Troubleshooting and Support Guide provides information about issues with regards to installation, upgrade, and product usage. This guide covers the known issues and limitations of the product. It helps you determine the symptoms and workaround for the problem. It also provides information about fixes, knowledge bases, and support.

- *IBM Security Access Manager for Enterprise Single Sign-On Error Message Reference Guide, GC14762402*

IBM Security Access Manager for Enterprise Single Sign-On Error Message Reference Guide describes all the informational, warning, and error messages that are associated with IBM Security Access Manager for Enterprise Single Sign-On.

- *IBM Security Access Manager for Enterprise Single Sign-On AccessStudio Guide, SC23995605*

IBM Security Access Manager for Enterprise Single Sign-On AccessStudio Guide provides information about creating and using AccessProfiles. This guide provides procedures for creating and editing standard and advanced AccessProfiles for different application types. It also covers information about managing authentication services and application objects, and information about other functions and features of AccessStudio.

- *IBM Security Access Manager for Enterprise Single Sign-On AccessProfile Widgets Guide, SC27444401*

IBM Security Access Manager for Enterprise Single Sign-On AccessProfile Widgets Guide provides information about creating and using widgets.

- *IBM Security Access Manager for Enterprise Single Sign-On Tivoli® Endpoint Manager Integration Guide, SC27562000*

IBM Security Access Manager for Enterprise Single Sign-On Tivoli Endpoint Manager Integration Guide provides information about how to create and deploy Fixlets for AccessAgent installation, upgrade or patch management. It also includes topics about using and customizing the dashboard to view information about AccessAgent deployment on the endpoints.
- *IBM Security Access Manager for Enterprise Single Sign-On Provisioning Integration Guide, SC23995704*

IBM Security Access Manager for Enterprise Single Sign-On Provisioning Integration Guide provides information about the different Java™ and SOAP API for provisioning. It also covers procedures for installing and configuring the Provisioning Agent.
- *IBM Security Access Manager for Enterprise Single Sign-On Web API for Credential Management Guide, SC14764601*

IBM Security Access Manager for Enterprise Single Sign-On Web API for Credential Management Guide provides information about installing and configuring the Web API for credential management.
- *IBM Security Access Manager for Enterprise Single Sign-On Serial ID SPI Guide, SC14762601*

IBM Security Access Manager for Enterprise Single Sign-On Serial ID SPI Guide describes how to integrate any device with serial numbers and use it as a second authentication factor with AccessAgent.
- *IBM Security Access Manager for Enterprise Single Sign-On Epic Integration Guide, SC27562300*

IBM Security Access Manager for Enterprise Single Sign-On Epic Integration Guide provides information about the IBM Security Access Manager for Enterprise Single Sign-On and Epic integration, including supported workflows, configurations, and deployment.
- *IBM Security Access Manager for Enterprise Single Sign-On Context Management Integration Guide, SC23995404*

IBM Security Access Manager for Enterprise Single Sign-On Context Management Integration Guide provides information about installing, configuring, and testing the Context Management integrated solution in each client workstation.
- *IBM Security Access Manager for Enterprise Single Sign-On AccessAgent on Mobile Guide, SC27562101*

IBM Security Access Manager for Enterprise Single Sign-On AccessAgent on Mobile Guide provides information about the deployment and use of single sign-on on mobile devices.
- *IBM Security Access Manager for Enterprise Single Sign-On AccessAgent on Virtual Desktop Infrastructure Guide, SC27562201*

IBM Security Access Manager for Enterprise Single Sign-On AccessAgent on Virtual Desktop Infrastructure Guide provides information about setting up single sign-on support on a Virtual Desktop Infrastructure, and the different user workflows for accessing the virtual desktop.
- *IBM Security Access Manager for Enterprise Single Sign-On AccessAgent on Terminal Server and Citrix Server Guide, SC27566801*

IBM Security Access Manager for Enterprise Single Sign-On AccessAgent on Terminal Server and Citrix Server Guide provides information about the required configurations and supported workflows in the Terminal and Citrix Servers.

Online publications

IBM posts product publications when the product is released and when the publications are updated at the following locations:

IBM Security Access Manager for Enterprise Single Sign-On library

The product documentation site (http://pic.dhe.ibm.com/infocenter/tivihelp/v2r1/index.jsp?topic=/com.ibm.itamesso.doc_8.2.1/kc-homepage.html) displays the welcome page and navigation for the library.

IBM Security Systems Documentation Central

IBM Security Systems Documentation Central provides an alphabetical list of all IBM Security Systems product libraries and links to the online documentation for specific versions of each product.

IBM Publications Center

IBM Publications Center offers customized search functions to help you find all the IBM publications you need.

IBM Terminology website

The IBM Terminology website consolidates terminology for product libraries in one location. You can access the Terminology website at <http://www.ibm.com/software/globalization/terminology>.

Accessibility

Accessibility features help users with a physical disability, such as restricted mobility or limited vision, to use software products successfully. With this product, you can use assistive technologies to hear and navigate the interface. You can also use the keyboard instead of the mouse to operate all features of the graphical user interface.

For additional information, see "Accessibility features" in the *IBM Security Access Manager for Enterprise Single Sign-On Planning and Deployment Guide*.

Technical training

For technical training information, see the following IBM Education website at <http://www.ibm.com/software/tivoli/education>.

Support information

IBM Support provides assistance with code-related problems and routine, short duration installation or usage questions. You can directly access the IBM Software Support site at <http://www.ibm.com/software/support/probsub.html>.

IBM Security Access Manager for Enterprise Single Sign-On Troubleshooting and Support Guide provides details about:

- What information to collect before contacting IBM Support.
- The various methods for contacting IBM Support.
- How to use IBM Support Assistant.
- Instructions and problem-determination resources to isolate and fix the problem yourself.

Note: The **Community and Support** tab on the product information center can provide additional support resources.

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 comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products or services to be most effective. 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.

Chapter 1. Overview of the product integration with Epic

Epic is a healthcare software company that offers applications that are related to patient care. You can integrate IBM Security Access Manager for Enterprise Single Sign-On with the Epic application through an Epic-defined interface to provide single sign-on support.

Design overview

When a user starts the Epic application, the application runs a callback function as a dynamic linked library (DLL). A *callback function* is an executable code that is passed as a variable to another code. A *dynamic link library* is a file that is shared by executable files and other shared files.

The callback function uses an AccessProfile to retrieve credentials from IBM Security Access Manager for Enterprise Single Sign-On. It then passes the credentials to the Epic application. The Epic application authenticates the user and then logs on the user.

The callback function and AccessProfile communicate with each other using invisible windows. The AccessProfile controls workflows such as capture, injection, and re-authentication.

See the *IBM Security Access Manager for Enterprise Single Sign-On AccessStudio Guide* for more information about AccessProfiles.

See the Epic website for more details about the Epic application.

Supported setup

The integration with the Epic application is supported for shared desktop and personal desktop, in Windows XP and Windows 7, 34-bit and 64-bit.

Chapter 2. Supported workflows and Epic configurations

There are several workflows that are involved with IBM Security Access Manager for Enterprise Single Sign-On. Some of these workflows are supported in the integration with the Epic application, but depends on the user repository that is used.

See the following tables for a summary of workflows and configurations that are supported based on the type of user repository that Epic uses.

Table 1. Supported AccessAgent workflows

Workflows	Epic uses its own user repository	Epic uses Active Directory	Epic uses a third-party repository
Password injection	Yes	Yes	No
Capture password	Yes	Yes	No
Change password	Yes	Yes	No
User re-authentication	Yes	Yes	No
User authorization (authentication of a user who is different from the user that is logged on to AccessAgent)	No	Yes	No
User re-authentication with second factor	No	No	No
User authorization with second factor	No	No	No

The re-authentication workflow is supported whether the Epic application uses its own user repository or an Active Directory. The AccessProfile bundled with the AccessProfile package takes care of the authorization workflow only. However, the AccessProfile can be easily changed in the field to support re-authentication or any customization when the need arises.

The authorization workflow is:

- Supported if the Epic application is using an Active Directory. When the following credentials are synchronized, the AccessProfile prompts for the Active Directory password of the user. This user is the one whose ID is given to the login device module of the Epic system.
 - ISAM ESSO user name and password
 - Active Directory user name and password
 - Epic user name and password
- Not supported if the Epic application is using its own user repository. Authorization involves opening another user Wallet and injecting the Epic password from that Wallet. The Epic user name must be mapped to the ISAM ESSO user name unless these user names are synchronized.

Table 2. Supported Epic configurations

Epic configurations	Epic uses its own user repository	Epic uses Active Directory	Epic uses a third-party repository
User clicks Secure desktop	No	Yes	No
Epic application automatically secures desktop because of no activity	No	Yes	No
Epic application automatically logs out the user because of no activity	No	Yes	No
Epic application automatically shuts down itself because of no activity	No	Yes	No

Chapter 3. Epic support deployment

Deploy the InstallEpicAdapter.bat file to all client computers to install single sign-on support for the Epic application.

Prerequisite

To deploy single sign-on support for the Epic application, ensure that you have:

- An IMS Server installed and configured
- The Epic support package

The package contains the following files:

File	Purpose
InstallEpicAdapter.bat	Registers the EpicAdapter.dll in the Windows registry.
EpicAdapter.dll	Implements the login device interface for IBM Security Access Manager for Enterprise Single Sign-On.
Epic AccessProfile	Controls the capture, injection, re-authentication, and is used for customization workflows.

- AccessAdmin Administrator privilege to upload AccessProfiles in the IMS Server.

Note: If you want to use AccessStudio to edit the Epic AccessProfile, ensure that you install AccessAgent before you install AccessStudio.

Deploying single sign-on support

The deployment procedure varies depending on whether AccessAgent is already installed.

If AccessAgent is already installed

1. Download the compressed file from the AccessProfile Library to your computer. The compressed file contains the InstallEpicAdapter.bat, EpicAdapter.dll, and AccessProfile files.
2. Deploy the InstallEpicAdapter.bat to all client computers. You can use software deployment tools like the Active Directory Group Policy Object (AD GPO).

Note: You must run the file as an Administrator to complete this task in Windows 7. You must have Administrator privileges to complete this task in Windows XP.

3. Upload the AccessProfile to the IMS Server with AccessStudio.
 - a. Open the AccessProfile in AccessStudio.
 - b. Select the AccessProfile from the **Data type** pane.
 - c. Click **Upload selected data to IMS** from the toolbar.

If AccessAgent is not yet installed

1. Download the compressed file from the AccessProfile Library to your computer. The compressed file contains the InstallEpicAdapter.bat, EpicAdapter.dll, and AccessProfile files.
2. Copy InstallEpicAdapter.bat and EpicAdapter.dll.
3. Select the Config folder of the AccessAgent installation package. For example: C:\Downloads\ISAM ESSO\Config.
4. Paste the InstallEpicAdapter.bat and EpicAdapter.dll files in the Config folder.
5. Modify the DeploymentScript.vbs in the Config folder.
 - a. Open the DeploymentScript.vbs.
 - b. Copy the following functions and paste them at the end of the script.


```
Function RegEpicAdapter
  'Register Epic adapter
  Dim strCOMCmd : strCOMCmd = "" & INSTALLDIR &
  "InstallEpicAdapter.bat" -nc"
  shell.Run strCOMCmd, 0, false
End Function

Function UnregEpicAdapter
  'Unregister Epic adapter
  Dim strCOMCmd : strCOMCmd = "" & INSTALLDIR &
  "InstallEpicAdapter.bat" -u"
  shell.Run strCOMCmd, 0, false
End Function
```
 - c. Modify the following functions in the script and add the code that is shown in bold.


```
sub PostCopy()
  (Any existing code)
  'Register Epic adapter
  RegEpicAdapter
end sub

sub PreRemove()
  (Any existing code)
  'Unregister Epic adapter
  UnregEpicAdapter
end sub
```
 - d. Save the script.
6. Install AccessAgent.

Epic server configuration

To configure the Epic Server and to implement the Epic login, contact the Epic System Administrator.

Important: In the Epic server configuration, the EpicAdapter.dll programmatic ID is EpicImpl.ISAMESSOIEpicDevice.

Chapter 4. Customization

The Epic AccessProfile in the package is a template. Modify the AccessProfile if there are changes to the authentication service or signature value of the Epic application.

Changing the authentication service in an AccessProfile

If you use another authentication service like Active Directory, change the authentication service in the AccessProfile to ensure that the AccessProfile retrieves the correct credentials.

About this task

Make sure that the authentication service in the AccessProfile matches the authentication service that is used by your organization.

Procedure

1. Open the Epic AccessProfile in AccessStudio. The Epic AccessProfile is included in the Epic application support package. See Chapter 3, “Epic support deployment,” on page 5 for more details.
2. Locate an action that requires an authentication service. For example: **Inject credentials**.
3. Click the action.
4. In the **Form Editor** tab, select **Auth Info > Direct-Authentication Service > Authentication service id**.
5. Enter your authentication service id.
6. Apply steps 3 - 5 to all actions that require an authentication service.
7. Save the AccessProfile.

What to do next

Upload the AccessProfile to the IMS Server.

Changing the signature in the AccessProfile

A signature in an AccessProfile contains a unique identification information for any application, window, or field. Change the signature in the Epic AccessProfile so that the AccessProfile can determine the name of the Epic application where the login workflow can run.

Procedure

1. Open the AccessProfile in AccessStudio.
2. Select the AccessProfile.
3. In the **General Properties** tab, select **Signatures identifying web-page or exe where this is AccessProfile is to be loaded**.
4. Click **Edit**.
5. Drag the **Finder tool** and drop it on the Epic application window.
6. Click **OK**.

Note: You must add one signature for each Epic application that needs single sign-on. See [Capturing a signature](#) for more information.

Chapter 5. Audit logs for Epic

You can create audit logs using an AccessProfile so that you can view the details of each workflow.

You can modify the Epic AccessProfile and add your custom audit log actions. See "Generating custom audit logs" in the *IBM Security Access Manager for Enterprise Single Sign-On AccessStudio Guide* for more information.

You can collect and view the audit logs in AccessAdmin. See "Collecting audit logs in AccessAdmin" in the *IBM Security Access Manager for Enterprise Single Sign-On Administrator Guide* for more information.

Chapter 6. Troubleshooting checklist for Epic

Answer the questions so that you can identify the source of a problem that is occurring with the Epic application.

Is the Programmatic ID correct?

Make sure that the **Programmatic ID** is **EpicImpl.ISAMESS0IEpicDevice** in the server configuration. For more information, see the Epic Administrator.

Is the Epic AccessProfile uploaded in the IMS Server?

You can verify by completing the following steps:

1. Open AccessStudio.
2. Select **File > Import data from IMS**.

The AccessProfile is displayed if it is uploaded in the IMS Server. Otherwise, download the AccessProfile again. See Chapter 3, "Epic support deployment," on page 5 for more details.

Is the EpicAdapter.dll registered in the Windows Registry?

You can verify by completing the following steps:

1. On your Windows desktop, select **Start > Run**.
2. Type regedit in the **Open** field.
3. Click **OK**.
4. Select **Edit > Find**.
5. Type EpicAdapter.dll in the **Find what** field.
6. Click **Find Next**.

The EpicAdapter.dll is at **My Computer > HKEY_LOCAL_MACHINE > SOFTWARE > Classes > AppID > EpicAdapter.DLL** in the Windows Registry.

Does the EpicAdapter.dll work properly?

You can verify by displaying the invisible windows.

1. On your Windows desktop, select **Start > Control Panel > System > Advanced > Environment Variables**.
2. Under **System variables**, click **New**.
3. In the **Variable name** field, type ISAMESSO_EPIC_WINDOW.
4. In the **Variable value** field, type SHOW.
5. Click **OK**.
6. Test the EpicAdapter.dll with the Epic login device host. For more information, see the Epic Administrator.

After verifying, you must delete the **ISAMESSO_EPIC_WINDOW** variable.

1. On your Windows desktop, select **Start > Control Panel > System > Advanced > Environment Variables**.
2. Under **System variables**, select **ISAMESSO_EPIC_WINDOW**.
3. Click **Delete**.
4. Click **OK**.

What logs were issued?

You can verify by checking the Observer logs.

1. Open the IBM Security Access Manager for Enterprise Single Sign-On folder location. For example: C:\Program Files\IBM\ISAMESSO\AA\Log\.
2. Open **aa_observer.log** to verify the result of an activity:
 - The user is logged in successfully.
 - The EpicAdapter.dll loaded correctly.
 - The invisible windows opened successfully.

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Glossary

This glossary includes terms and definitions for IBM Security Access Manager for Enterprise Single Sign-On.

The following cross-references are used in this glossary:

- See refers you from a term to a preferred synonym, or from an acronym or abbreviation to the defined full form.
- See also refers you to a related or contrasting term.

To view glossaries for other IBM products, go to www.ibm.com/software/globalization/terminology (opens in new window).

A

account data

The logon information required to verify an authentication service. It can be the user name, password, and the authentication service which the logon information is stored.

account data bag

A data structure that holds user credentials in memory while single sign-on is performed on an application.

account data item

The user credentials required for logon.

account data item template

A template that defines the properties of an account data item.

account data template

A template that defines the format of account data to be stored for credentials captured using a specific AccessProfile.

action In profiling, an act that can be performed in response to a trigger. For example, automatic filling of user name and password details as soon as a sign-on window displays.

Active Directory (AD)

A hierarchical directory service that enables centralized, secure management

of an entire network, which is a central component of the Microsoft Windows platform.

Active Directory credential

The Active Directory user name and password.

Active Directory password synchronization

An IBM Security Access Manager for Enterprise Single Sign-On feature that synchronizes the ISAM ESSO password with the Active Directory password.

active radio frequency identification (active RFID)

A second authentication factor and presence detector. See also radio frequency identification.

active RFID

See active radio frequency identification.

AD See Active Directory.

administrator

A person responsible for administrative tasks such as access authorization and content management. Administrators can also grant levels of authority to users.

API See application programming interface.

application

A system that provides the user interface for reading or entering the authentication credentials.

application policy

A collection of policies and attributes governing access to applications.

application programming interface (API)

An interface that allows an application program that is written in a high-level language to use specific data or functions of the operating system or another program.

audit A process that logs the user, Administrator, and Helpdesk activities.

authentication factor

The device, biometrics, or secrets required as a credentials for validating digital identities. Examples of authentication

factors are passwords, smart card, RFID, biometrics, and one-time password tokens.

authentication service

A service that verifies the validity of an account; applications authenticate against their own user store or against a corporate directory.

authorization code

An alphanumeric code generated for administrative functions, such as password resets or two-factor authentication bypass.

auto-capture

A process that allows a system to collect and reuse user credentials for different applications. These credentials are captured when the user enters information for the first time, and then stored and secured for future use.

automatic sign-on

A feature where users can log on to the sign-on automation system and the system logs on the user to all other applications.

B

base distinguished name

A name that indicates the starting point for searches in the directory server.

base image

A template for a virtual desktop.

bidirectional language

A language that uses a script, such as Arabic and Hebrew, whose general flow of text proceeds horizontally from right to left, but numbers, English, and other left-to-right language text are written from left to right.

bind distinguished name

A name that specifies the credentials for the application server to use when connecting to a directory service. The distinguished name uniquely identifies an entry in a directory.

biometrics

The identification of a user based on a physical characteristic of the user, such as a fingerprint, iris, face, voice, or handwriting.

C

CA See certificate authority.

CAPI See cryptographic application programming interface.

Card Serial Number (CSN)

A unique data item that identifies a hybrid smart card. It has no relation to the certificates installed in the smart card

CCOW

See Clinical Context Object Workgroup.

cell

A group of managed processes that are federated to the same deployment manager and can include high-availability core groups.

certificate

In computer security, a digital document that binds a public key to the identity of the certificate owner, thereby enabling the certificate owner to be authenticated. A certificate is issued by a certificate authority and is digitally signed by that authority. See also certificate authority.

certificate authority (CA)

A trusted third-party organization or company that issues the digital certificates. The certificate authority typically verifies the identity of the individuals who are granted the unique certificate. See also certificate.

CLI See command-line interface.

Clinical Context Object Workgroup (CCOW)

A vendor independent standard, for the interchange of information between clinical applications in the healthcare industry.

cluster

A group of application servers that collaborate for the purposes of workload balancing and failover.

command-line interface (CLI)

A computer interface in which the input and output are text based.

credential

Information acquired during authentication that describes a user, group associations, or other security-related identity attributes, and that is used to perform services such as authorization, auditing, or delegation. For example, a

user ID and password are credentials that allow access to network and system resources.

cryptographic application programming interface (CAPI)

An application programming interface that provides services to enable developers to secure applications using cryptography. It is a set of dynamically-linked libraries that provides an abstraction layer which isolates programmers from the code used to encrypt the data.

cryptographic service provider (CSP)

A feature of the i5/OS™ operating system that provides APIs. The CCA Cryptographic Service Provider enables a user to run functions on the 4758 Coprocessor.

CSN See Card Serial Number.

CSP See cryptographic service provider.

D

dashboard

An interface that integrates data from a variety of sources and provides a unified display of relevant and in-context information.

database server

A software program that uses a database manager to provide database services to other software programs or computers.

data source

The means by which an application accesses data from a database.

deployment manager

A server that manages and configures operations for a logical group or cell of other servers.

deployment manager profile

A WebSphere Application Server runtime environment that manages operations for a logical group, or cell, of other servers.

deprovision

To remove a service or component. For example, to deprovision an account means to delete an account from a resource. See also provision.

desktop pool

A collection of virtual desktops of similar

configuration intended to be used by a designated group of users.

directory

A file that contains the names and controlling information for objects or other directories.

directory service

A directory of names, profile information, and machine addresses of every user and resource on the network. It manages user accounts and network permissions. When a user name is sent, it returns the attributes of that individual, which might include a telephone number, as well as an email address. Directory services use highly specialized databases that are typically hierarchical in design and provide fast lookups.

disaster recovery

The process of restoring a database, system, policies after a partial or complete site failure that was caused by a catastrophic event such as an earthquake or fire. Typically, disaster recovery requires a full backup at another location.

disaster recovery site

A secondary location for the production environment in case of a disaster.

distinguished name (DN)

The name that uniquely identifies an entry in a directory. A distinguished name is made up of attribute:value pairs, separated by commas. For example, CN=person name and C=country or region.

DLL See dynamic link library.

DN See distinguished name.

DNS See domain name server.

domain name server (DNS)

A server program that supplies name-to-address conversion by mapping domain names to IP addresses.

dynamic link library (DLL)

A file containing executable code and data bound to a program at load time or run time, rather than during linking. The code and data in a DLL can be shared by several applications simultaneously.

E

enterprise directory

A directory of user accounts that define IBM Security Access Manager for Enterprise Single Sign-On users. It validates user credentials during sign-up and logon, if the password is synchronized with the enterprise directory password. An example of an enterprise directory is Active Directory.

enterprise single sign-on (ESSO)

A mechanism that allows users to log on to all applications deployed in the enterprise by entering a user ID and other credentials, such as a password.

ESSO See enterprise single sign-on.

event code

A code that represents a specific event that is tracked and logged into the audit log tables.

F

failover

An automatic operation that switches to a redundant or standby system or node in the event of a software, hardware, or network interruption.

fast user switching

A feature that allows users to switch between user accounts on a single workstation without quitting and logging out of applications.

Federal Information Processing Standard (FIPS)

A standard produced by the National Institute of Standards and Technology when national and international standards are nonexistent or inadequate to satisfy the U.S. government requirements.

FIPS See Federal Information Processing Standard.

fix pack

A cumulative collection of fixes that is released between scheduled refresh packs, manufacturing refreshes, or releases. A fix pack updates the system to a specific maintenance level.

FQDN

See fully qualified domain name.

fully qualified domain name (FQDN)

In Internet communications, the name of a host system that includes all of the subnames of the domain name. An example of a fully qualified domain name is rchland.vnet.ibm.com. See also host name.

G

GINA See graphical identification and authentication.

GPO See group policy object.

graphical identification and authentication (GINA)

A dynamic link library that provides a user interface that is tightly integrated with authentication factors and provides password resets and second factor bypass options.

group policy object (GPO)

A collection of group policy settings. Group policy objects are the documents created by the group policy snap-in. Group policy objects are stored at the domain level, and they affect users and computers contained in sites, domains, and organizational units.

H

HA See high availability.

high availability (HA)

The ability of IT services to withstand all outages and continue providing processing capability according to some predefined service level. Covered outages include both planned events, such as maintenance and backups, and unplanned events, such as software failures, hardware failures, power failures, and disasters.

host name

In Internet communication, the name given to a computer. The host name might be a fully qualified domain name such as mycomputer.city.company.com, or it might be a specific subname such as mycomputer. See also fully qualified domain name, IP address.

hot key

A key sequence used to shift operations

between different applications or between different functions of an application.

hybrid smart card

An ISO-7816 compliant smart card which contains a public key cryptography chip and an RFID chip. The cryptographic chip is accessible through contact interface. The RFID chip is accessible through contactless (RF) interface.

I

interactive graphical mode

A series of panels that prompts for information to complete the installation.

IP address

A unique address for a device or logical unit on a network that uses the Internet Protocol standard. See also host name.

J

Java Management Extensions (JMX)

A means of doing management of and through Java technology. JMX is a universal, open extension of the Java programming language for management that can be deployed across all industries, wherever management is needed.

Java runtime environment (JRE)

A subset of a Java developer kit that contains the core executable programs and files that constitute the standard Java platform. The JRE includes the Java virtual machine (JVM), core classes, and supporting files.

Java virtual machine (JVM)

A software implementation of a processor that runs compiled Java code (applets and applications).

JMX See Java Management Extensions.

JRE See Java runtime environment.

JVM See Java virtual machine.

K

keystore

In security, a file or a hardware cryptographic card where identities and private keys are stored, for authentication

and encryption purposes. Some keystores also contain trusted or public keys. See also truststore.

L

LDAP See Lightweight Directory Access Protocol.

Lightweight Directory Access Protocol (LDAP)

An open protocol that uses TCP/IP to provide access to directories that support an X.500 model. An LDAP can be used to locate people, organizations, and other resources in an Internet or intranet directory.

lightweight mode

A Server AccessAgent mode. Running in lightweight mode reduces the memory footprint of AccessAgent on a Terminal or Citrix Server and improves the single sign-on startup duration.

linked clone

A copy of a virtual machine that shares virtual disks with the parent virtual machine in an ongoing manner.

load balancing

The monitoring of application servers and management of the workload on servers. If one server exceeds its workload, requests are forwarded to another server with more capacity.

lookup user

A user who is authenticated in the Enterprise Directory and searches for other users. IBM Security Access Manager for Enterprise Single Sign-On uses the lookup user to retrieve user attributes from the Active Directory or LDAP enterprise repository.

M

managed node

A node that is federated to a deployment manager and contains a node agent and can contain managed servers. See also node.

mobile authentication

An authentication factor which allows mobile users to sign-on securely to corporate resources from anywhere on the network.

N

network deployment

The deployment of an IMS™ Server on a WebSphere Application Server cluster.

node A logical group of managed servers. See also managed node.

node agent

An administrative agent that manages all application servers on a node and represents the node in the management cell.

O

one-time password (OTP)

A one-use password that is generated for an authentication event, and is sometimes communicated between the client and the server through a secure channel.

OTP See one-time password.

OTP token

A small, highly portable hardware device that the owner carries to authorize access to digital systems and physical assets, or both.

P

password aging

A security feature by which the superuser can specify how often users must change their passwords.

password complexity policy

A policy that specifies the minimum and maximum length of the password, the minimum number of numeric and alphabetic characters, and whether to allow mixed uppercase and lowercase characters.

personal identification number (PIN)

In Cryptographic Support, a unique number assigned by an organization to an individual and used as proof of identity. PINs are commonly assigned by financial institutions to their customers.

PIN See personal identification number.

pinnable state

A state from an AccessProfile widget that

can be combined to the main AccessProfile to reuse the AccessProfile widget function.

PKCS See Public Key Cryptography Standards.

policy template

A predefined policy form that helps users define a policy by providing the fixed policy elements that cannot be changed and the variable policy elements that can be changed.

portal A single, secure point of access to diverse information, applications, and people that can be customized and personalized.

presence detector

A device that, when fixed to a computer, detects when a person moves away from it. This device eliminates manually locking the computer upon leaving it for a short time.

primary authentication factor

The IBM Security Access Manager for Enterprise Single Sign-On password or directory server credentials.

private key

In computer security, the secret half of a cryptographic key pair that is used with a public key algorithm. The private key is known only to its owner. Private keys are typically used to digitally sign data and to decrypt data that has been encrypted with the corresponding public key.

provision

To provide, deploy, and track a service, component, application, or resource. See also deprovision.

provisioning API

An interface that allows IBM Security Access Manager for Enterprise Single Sign-On to integrate with user provisioning systems.

provisioning bridge

An automatic IMS Server credential distribution process with third party provisioning systems that uses API libraries with a SOAP connection.

provisioning system

A system that provides identity lifecycle management for application users in enterprises and manages their credentials.

Public Key Cryptography Standards (PKCS)

A set of industry-standard protocols used for secure information exchange on the Internet. Domino[®] Certificate Authority and Server Certificate Administration applications can accept certificates in PKCS format.

published application

An application installed on Citrix XenApp server that can be accessed from Citrix ICA Clients.

published desktop

A Citrix XenApp feature where users have remote access to a full Windows desktop from any device, anywhere, at any time.

R**radio frequency identification (RFID)**

An automatic identification and data capture technology that identifies unique items and transmits data using radio waves. See also active radio frequency identification.

RADIUS

See remote authentication dial-in user service.

random password

An arbitrarily generated password used to increase authentication security between clients and servers.

RDP See remote desktop protocol.

registry

A repository that contains access and configuration information for users, systems, and software.

registry hive

In Windows systems, the structure of the data stored in the registry.

remote authentication dial-in user service (RADIUS)

An authentication and accounting system that uses access servers to provide centralized management of access to large networks.

remote desktop protocol (RDP)

A protocol that facilitates remote display and input over network connections for Windows-based server applications. RDP

supports different network topologies and multiple connections.

replication

The process of maintaining a defined set of data in more than one location. Replication involves copying designated changes for one location (a source) to another (a target) and synchronizing the data in both locations.

revoke

To remove a privilege or an authority from an authorization identifier.

RFID See radio frequency identification.

root CA

See root certificate authority.

root certificate authority (root CA)

The certificate authority at the top of the hierarchy of authorities by which the identity of a certificate holder can be verified.

S

scope A reference to the applicability of a policy, at the system, user, or machine level.

secret question

A question whose answer is known only to the user. A secret question is used as a security feature to verify the identity of a user.

secure remote access

The solution that provides web browser-based single sign-on to all applications from outside the firewall.

Secure Sockets Layer (SSL)

A security protocol that provides communication privacy. With SSL, client/server applications can communicate in a way that is designed to prevent eavesdropping, tampering, and message forgery.

Secure Sockets Layer virtual private network (SSL VPN)

A form of VPN that can be used with a standard web browser.

Security Token Service (STS)

A web service that is used for issuing and exchanging security tokens.

security trust service chain

A group of module instances that are

configured for use together. Each module instance in the chain is called in turn to perform a specific function as part of the overall processing of a request.

serial ID service provider interface

A programmatic interface intended for integrating AccessAgent with third-party Serial ID devices used for two-factor authentication.

serial number

A unique number embedded in the IBM Security Access Manager for Enterprise Single Sign-On keys, which is unique to each key and cannot be changed.

server locator

A locator that groups a related set of web applications that require authentication by the same authentication service. In AccessStudio, server locators identify the authentication service with which an application screen is associated.

service provider interface (SPI)

An interface through which vendors can integrate any device with serial numbers with IBM Security Access Manager for Enterprise Single Sign-On and use the device as a second factor in AccessAgent.

signature

In profiling, unique identification information for any application, window, or field.

sign-on automation

A technology that works with application user interfaces to automate the sign-on process for users.

sign up

To request a resource.

silent mode

A method for installing or uninstalling a product component from the command line with no GUI display. When using silent mode, you specify the data required by the installation or uninstallation program directly on the command line or in a file (called an option file or response file).

Simple Mail Transfer Protocol (SMTP)

An Internet application protocol for transferring mail among users of the Internet.

single sign-on (SSO)

An authentication process in which a user can access more than one system or application by entering a single user ID and password.

smart card

An intelligent token that is embedded with an integrated circuit chip that provides memory capacity and computational capabilities.

smart card middleware

Software that acts as an interface between smart card applications and the smart card hardware. Typically the software consists of libraries that implement PKCS#11 and CAPI interfaces to smart cards.

SMTP See Simple Mail Transfer Protocol.

snapshot

A captured state, data, and hardware configuration of a running virtual machine.

SOAP A lightweight, XML-based protocol for exchanging information in a decentralized, distributed environment. SOAP can be used to query and return information and invoke services across the Internet. See also web service.

SPI See service provider interface.

SSL See Secure Sockets Layer.

SSL VPN

See Secure Sockets Layer virtual private network.

SSO See single sign-on.

stand-alone deployment

A deployment where the IMS Server is deployed on an independent WebSphere Application Server profile.

stand-alone server

A fully operational server that is managed independently of all other servers, using its own administrative console.

strong authentication

A solution that uses multifactor authentication devices to prevent unauthorized access to confidential corporate information and IT networks, both inside and outside the corporate perimeter.

strong digital identity

An online persona that is difficult to impersonate, possibly secured by private keys on a smart card.

STS See Security Token Service.

system modal message

A system dialog box that is typically used to display important messages. When a system modal message is displayed, nothing else can be selected on the screen until the message is closed.

T

terminal emulator

A program that allows a device such as a microcomputer or personal computer to enter and receive data from a computer system as if it were a particular type of attached terminal.

terminal type (tty)

A generic device driver for a text display. A tty typically performs input and output on a character-by-character basis.

thin client

A client that has little or no installed software but has access to software that is managed and delivered by network servers that are attached to it. A thin client is an alternative to a full-function client such as a workstation.

transparent screen lock

An feature that, when enabled, permits users to lock their desktop screens but still see the contents of their desktop.

trigger

In profiling, an event that causes transitions between states in a states engine, such as, the loading of a web page or the appearance of a window on the desktop.

trust service chain

A chain of modules that operate in different modes such as validate, map, and issue truststore.

truststore

In security, a storage object, either a file or a hardware cryptographic card, where public keys are stored in the form of trusted certificates, for authentication purposes in web transactions. In some applications, these trusted certificates are

moved into the application keystore to be stored with the private keys. See also keystore.

tty See terminal type.

two-factor authentication

The use of two factors to authenticate a user. For example, the use of password and an RFID card to log on to AccessAgent.

U

uniform resource identifier

A compact string of characters for identifying an abstract or physical resource.

user credential

Information acquired during authentication that describes a user, group associations, or other security-related identity attributes, and that is used to perform services such as authorization, auditing, or delegation. For example, a user ID and password are credentials that allow access to network and system resources.

user deprovisioning

The process of removing a user account from IBM Security Access Manager for Enterprise Single Sign-On.

user provisioning

The process of signing up a user to use IBM Security Access Manager for Enterprise Single Sign-On.

V

VB See Visual Basic.

virtual appliance

A virtual machine image with a specific application purpose that is deployed to virtualization platforms.

virtual channel connector

A connector that is used in a terminal services environment. The virtual channel connector establishes a virtual communication channel to manage the remote sessions between the Client AccessAgent component and the Server AccessAgent.

virtual desktop

A user interface in a virtualized environment, stored on a remote server.

virtual desktop infrastructure

An infrastructure that consists of desktop operating systems hosted within virtual machines on a centralized server.

Virtual Member Manager (VMM)

A WebSphere Application Server component that provides applications with a secure facility to access basic organizational entity data such as people, logon accounts, and security roles.

virtual private network (VPN)

An extension of a company intranet over the existing framework of either a public or private network. A VPN ensures that the data that is sent between the two endpoints of its connection remains secure.

Visual Basic (VB)

An event-driven programming language and integrated development environment (IDE) from Microsoft.

VMM See Virtual Member Manager.

VPN See virtual private network.

web service

A self-contained, self-describing modular application that can be published, discovered, and invoked over a network using standard network protocols. Typically, XML is used to tag the data, SOAP is used to transfer the data, WSDL is used for describing the services available, and UDDI is used for listing what services are available. See also SOAP.

WS-Trust

A web services security specification that defines a framework for trust models to establish trust between web services.

W

wallet A secured data store of access credentials of a user and related information, which includes user IDs, passwords, certificates, encryption keys.

wallet caching

The process during single sign-on for an application whereby AccessAgent retrieves the logon credentials from the user credential wallet. The user credential wallet is downloaded on the user machine and stored securely on the IMS Server.

wallet manager

The IBM Security Access Manager for Enterprise Single Sign-On GUI component that lets users manage application credentials in the personal identity wallet.

web server

A software program that is capable of servicing Hypertext Transfer Protocol (HTTP) requests.

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