CA Access Control Premium Edition

Release Notes



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CONTAINS IBM(R) 32-bit Runtime Environment for AIX(TM), Java(TM) 2 Technology Edition, Version 1.4 Modules

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Sample Scripts and Sample SDK Code

The Sample Scripts and Sample SDK code included with the CA Access Control product are provided "as is", for informational purposes only. They may need to be adjusted in specific environments and should not be used in production without testing and validating them before deploying them on a production system.

CA Technologies does not provide support for these samples and cannot be responsible for any errors that these scripts may cause.

CA Technologies Product References

This document references the following CA Technologies products:

- CA Access Control Premium Edition
- CA Access Control
- CA Single Sign-On (CA SSO)
- CA Top Secret®
- CA ACF2™
- CA Audit
- CA Network and Systems Management (CA NSM, formerly Unicenter NSM and Unicenter TNG)
- CA Software Delivery (formerly Unicenter Software Delivery)
- CA Service Desk (formerly Unicenter Service Desk)
- CA User Activity Reporting Module (formerly CA Enterprise Log Manager)
- CA Identity Manager

Documentation Conventions

The CA Access Control documentation uses the following conventions:

Format	Meaning
Mono-spaced font	Code or program output
Italic	Emphasis or a new term
Bold	Text that you must type exactly as shown
A forward slash (/)	Platform independent directory separator used to describe UNIX and Windows paths

The documentation also uses the following special conventions when explaining command syntax and user input (in a mono-spaced font):

Format	Meaning
Italic	Information that you must supply
Between square brackets ([])	Optional operands

Format	Meaning
Between braces ({})	Set of mandatory operands
Choices separated by pipe ().	Separates alternative operands (choose one). For example, the following means <i>either</i> a user name <i>or</i> a group name:
	{username groupname}
	Indicates that the preceding item or group of items can be repeated
<u>Underline</u>	Default values
A backslash at end of line preceded by a space (\)	Sometimes a command does not fit on a single line in this guide. In these cases, a space followed by a backslash (\) at the end of a line indicates that the command continues on the following line.
	Note: Avoid copying the backslash character and omit the line break. These are not part of the actual command syntax.

Example: Command Notation Conventions

The following code illustrates how command conventions are used in this guide:

```
ruler className [props({all|{propertyName1[,propertyName2]...})]
```

In this example:

- The command name (ruler) is shown in regular mono-spaced font as it must be typed as shown.
- The className option is in italic as it is a placeholder for a class name (for example, USER).
- You can run the command without the second part enclosed in square brackets, which signifies optional operands.
- When using the optional parameter (props), you can choose the keyword all or, specify one or more property names separated by a comma.

File Location Conventions

The CA Access Control documentation uses the following file location conventions:

- ACInstallDir—The default CA Access Control installation directory.
 - Windows—C:\Program Files\CA\AccessControl\
 - UNIX—/opt/CA/AccessControl/

- ACSharedDir—A default directory used by CA Access Control for UNIX.
 - UNIX—/opt/CA/AccessControlShared
- ACServerInstallDir—The default CA Access Control Enterprise Management installation directory.
 - /opt/CA/AccessControlServer
- DistServerInstallDir—The default Distribution Server installation directory.
 - /opt/CA/DistributionServer
- JBoss HOME—The default JBoss installation directory.
 - /opt/jboss-4.2.3.GA

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- Information about user communities and forums
- Product and documentation downloads
- CA Support policies and guidelines
- Other helpful resources appropriate for your product

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Chapter 1: Welcome

Welcome to CA Access Control Premium Edition r12.6. This guide describes new enhancements, changes to existing features, operating system support, system requirements, documentation information, installation and general considerations, published solutions, and known issues for CA Access Control Premium Edition.

CA Access Control Premium Edition offers the same functionality and components as CA Access Control. In addition, it offers enterprise management and reporting capabilities, and advanced policy management features.

To simplify terminology, we refer to the product as CA Access Control throughout this guide.

Chapter 2: CA Access Control Editions

CA Access Control is available in two editions and features vary by product edition:

CA Access Control

Contains the core functionality that provides a total security solution for open systems.

CA Access Control Premium Edition

Offers the same functionality and components as CA Access Control. In addition, it offers enterprise management and reporting capabilities, advanced policy management features, and CA Enterprise Log Manager for collecting and managing CA Access Control audit logs.

CA Access Control Premium Edition contains Privileged User Password Management (PUPM) to help you manage and audit the tasks performed by privileged accounts. The UNIX Authentication Broker (UNAB) feature lets you manage UNIX users in Active Directory and consolidate your users into a single repository.

CA Access Control Premium Edition Installation Media

CA Access Control Premium Edition components are available on the following optical discs.

Note: CA Access Control Premium Edition installation media is different from that of CA Access Control.

The following optical discs contain endpoint components:

CA Access Control Endpoint Components for Windows

Contains CA Access Control for Windows installation files for endpoint components. These include the core CA Access Control functionality required for a standalone Windows computer, additional executables and libraries to extend core functionality (for example, Policy Model support), runtime SDK files and libraries and API samples, mainframe password synchronization, Stack Overflow Protection (STOP), and the PUPM Agent.

CA Access Control Endpoint Components for UNIX

Contains CA Access Control for UNIX installation files for endpoint components. These include the core CA Access Control functionality required for a standalone UNIX computer, additional binaries and scripts to extend core functionality (for example, Policy Model support), runtime SDK files and libraries and API samples, mainframe password synchronization, Stack Overflow Protection (STOP), and the PUPM Agent.

This optical disc also contains UNAB installation files.

The following optical discs contain Enterprise Management Server and Report Portal components for Windows:

■ CA Access Control Premium Edition Server Components for Windows

Contains installation files for CA Access Control Endpoint Management, CA Access Control Distribution Server, and CA Access Control Enterprise Management.

CA Access Control Enterprise Management includes CA Access Control Endpoint Management, CA Access Control endpoint components for Windows, CA Access Control Distribution Server components, and the Deployment Map Server (DMS).

This optical disc also includes report packages for import in to CA Business Intelligence.

■ CA Access Control Third Party Components for Windows

Contains a prerequisite installer that installs prerequisite third-party software (JDK and JBoss) on Windows. These software applications are required before you can install CA Access Control Premium Edition Server Components.

The following optical discs contain Enterprise Management Server and Report Portal components for Linux:

■ CA Access Control Premium Edition Server Components for Linux

Contains installation files for CA Access Control Endpoint Management, CA Access Control Distribution Server, and CA Access Control Enterprise Management.

CA Access Control Enterprise Management includes CA Access Control Endpoint Management, CA Access Control endpoint components for Linux, CA Access Control Distribution Server components, and the Deployment Map Server (DMS).

This optical disc also includes report packages for import in to CA Business Intelligence.

CA Access Control Third Party Components for Linux

Contains prerequisite third-party software (JDK and JBoss) for Linux. These software applications are required before you can install CA Access Control Premium Edition Server Components.

CA Access Control Installation Media

CA Access Control components are available on the following optical discs.

Note: CA Access Control Premium Edition installation media is different from that of CA Access Control.

The following optical discs contain endpoint components:

CA Access Control Endpoint Components for Windows

Contains CA Access Control for Windows installation files for endpoint components. These include the core CA Access Control functionality required for a standalone Windows computer, additional executables and libraries to extend core functionality (for example, Policy Model support), runtime SDK files and libraries and API samples, mainframe password synchronization, and Stack Overflow Protection (STOP).

CA Access Control Endpoint Components for UNIX

Contains CA Access Control for UNIX installation files for endpoint components. These include the core CA Access Control functionality required for a standalone UNIX computer, additional binaries and scripts to extend core functionality (for example, Policy Model support), API libraries and samples, mainframe password synchronization, and Stack Overflow Protection (STOP).

This optical disc also contains UNAB installation files for use with CA Access Control Premium Edition.

The following optical discs contain server components for Windows:

- CA Access Control Server Components for Windows
 Contains CA Access Control Endpoint Management for Windows.
- CA Access Control Third Party Components for Windows

Contains an installer that installs prerequisite third-party software (JDK and JBoss) on Windows. These software applications are required before you can install CA Access Control Endpoint Management.

The following optical discs contain server components for Solaris:

- CA Access Control Server Components for Solaris
 Contains CA Access Control Endpoint Management for Solaris.
- CA Access Control Third Party Components for Solaris
 Contains prerequisite third-party software (JDK and JBoss) for Solaris. These software applications are required before you can install CA Access Control Endpoint Management.

The following optical discs contain server components for Linux:

- CA Access Control Server Components for Linux
 Contains CA Access Control Endpoint Management for Linux.
- CA Access Control Third Party Components for Linux

Contains prerequisite third-party software (JDK and JBoss) for Linux. These software applications are required before you can install CA Access Control Endpoint Management.

Complementary CA User Activity Reporting Module License

As the owner of the CA Access Control Premium Edition, you are also entitled to the CA User Activity Reporting Module product for the limited use of collecting, managing and reporting on CA Access Control audit logs. First, you must obtain a license for "CA User Activity Reporting Module Server for CA Access Control" (Codes ELMSAC99100/ELMSAC991), which is offered to CA Access Control Premium Edition customers for a symbolic price.

To obtain your license for CA User Activity Reporting Module in North America, contact your local account representative. If you are outside of North America, call your local account representative or the local CA Technologies office. You can download CA User Activity Reporting Module online through the Download Center on the CA Support Online web site at http://ca.com/support under your CA Access Control Premium Edition download links.

A Single Documentation Set for All Editions

We supply the same documentation for both editions. Because of that, some sections of some guides apply only to CA Access Control Premium Edition. The following describes how the documentation applies to CA Access Control:

Release Notes

Some information in this guide applies only to CA Access Control Premium Edition features.

■ Implementation Guide

Some information in this guide applies only to CA Access Control Premium Edition features.

■ Enterprise Administration Guide

The entire guide applies only to CA Access Control Premium Edition.

■ Upgrade Guide

Some information in this guide applies only to CA Access Control Premium Edition features.

■ Implementation Guide

This entire guide applies to CA Access Control Premium Edition.

Endpoint Administration Guide for Windows

The entire guide applies to CA Access Control.

Endpoint Administration Guide for UNIX

The entire guide applies to CA Access Control.

Reference Guide

Some information in this guide applies only to CA Access Control Premium Edition features.

■ selang Reference Guide

Some information in this guide applies only to CA Access Control Premium Edition features.

Troubleshooting Guide

Some information in this guide applies only to CA Access Control Premium Edition features.

To simplify terminology, we refer to the product as CA Access Control throughout the documentation.

Chapter 3: New and Changed Features

This section contains the following topics:

PUPM Enhancements (see page 19)
UNAB Enhancements (see page 19)
CA Access Control Enhancements (see page 20)
Fixed Issues in This Release (see page 20)

PUPM Enhancements

The following PUPM enhancements and fixes were made since the last release:

■ PUPM Windows Agentless Connector Enhancements

Enhanced the PUPM Windows Agentless Connector to improve performance and scalability.

■ Improved Automatic Password Reset Performance

The Automatic Password Reset mechanism was improved to better handle a large number of password resets.

PUPM Endpoint Feeder CSV Updated

The PUPM Endpoint Feeder CSV file was updated to include the 'custom' field.

UNAB Enhancements

The following UNAB enhancements and fixes were made since the last release:

Unable to remove UNAB policy using CA Access Control Enterprise Management

Fixed an issue with UNAB that prevented removing a deployed policy from a Red Hat Linux endpoint from CA Access Control Enterprise Management.

CA Access Control Enhancements

The following CA Access Control enhancements and fixes were made since the last release:

■ DXinx Performance Issues on Oracle

Fixed a performance issue with DXlink on Oracle.

RACF Connector Issues

Fixed the following RACF endpoint related issues:

- PUPM enabled account password change although the password policy is incorrect.
- Errors occurred while creating RACF endpoint using the PUPM Feeder option.
- Account password change successful for accounts with nonexpired option enabled.

Advanced Policy Management Issues

Fixed the following Advanced Policy Management related issues:

- sepmdd and SeOS Agent malfunction and memory leak when using AES encryption.
- sepmdd malfunctions on shut down that may result in database corruption.
- Performance improvements for Policy Management screens in CA Access Control Enterprise Management.
- Policy upgrade error when upgrading a policy that contains a deleted version.
- policydeploy -clear argument now supports -ghnode option.
- policydeploy -clear argument now removed the policy before clearing policy status.
- PolicyFetcher enhancements to support large environments.
- "Out of Sync" policy error corrected.

Fixed Issues in This Release

Fixes included in this release are documented in the Release FIXLIST. You can access the FIXLIST from the <u>CA Access Control Latest Maintenance Release</u> page on CA Support.

Chapter 4: System Requirements

This section contains the following topics:

Operating System Support (see page 21)

Enterprise Management Server Requirements (see page 21)

Enterprise Management Server Integration Components (see page 22)

<u>CA Access Control Endpoint Management Requirements</u> (see page 22)

Enterprise Reporting Requirements (see page 23)

Distribution Server Requirements (see page 24)

Windows Endpoint Requirements (see page 24)

UNIX Endpoint Requirements (see page 24)

Policy Model Database Requirements (see page 25)

UNAB Requirements (see page 25)

Operating System Support

For a list of supported operating systems, see the CA Access Control Compatibility Matrix that is available from the CA Access Control product page on CA Support.

Enterprise Management Server Requirements

The minimum requirements for the Enterprise Server are:

- Processor—(Windows) Pentium PC 2.66 GHz; (UNIX) SPARC Workstation 440MHz
- Memory—2 GB RAM
- Available disk space—2 GB at installation directory; 3 GB at %TEMP% (Windows) or /tmp (UNIX); 3 GB swap file; 1.5 GB at the JBoss directory

In addition, the Enterprise Server should have the following software installed:

- JDK—Java Development Kit (JDK) 1.5.0 or higher
- Application server—JBoss Application Server version 4.2.3.GA
- A central database (RDBMS)—Oracle Database 10g, Oracle Database 11g, Microsoft SQL Server 2005, or Microsoft SQL Server 2008

Note: This central database does not need to be installed on the same computer. For information about system requirements for your RDBMS, see the documentation for your product.

On the end user's computer you need a minimum screen resolution of 1024 x 768 and the following as your web browser:

- Windows—Microsoft Internet Explorer 6.x or 7.x or 8.x; or Mozilla Firefox 2.x or 3.0 or 3.5
- Linux—Mozilla Firefox 2.x or 3.0 or 3.5

Enterprise Management Server Integration Components

The Enterprise Management Server supports integration with the following products:

Active Directory—(Optional) An enterprise user store.

Note: You do not need to install the user store on the same computer as the Enterprise Management Server.

■ Report Portal—CA Business Intelligence.

Note: You do not need to install this software on the same computer as the Enterprise Management Server. For information about system requirements for the Report Portal, see the *CA Business Intelligence Installation Guide*.

Note: For more information about CA Business Intelligence, see the *CA Business Intelligence Installation Guide*, which is available from <u>CA Technologies Support</u>.

■ CA Enterprise Log Manager—r12.0

Note: Do not install this software on the same computer as the Enterprise Management Server. For information about system requirements for CA Enterprise Log Manager, see the *CA Enterprise Log Manager Release Notes*.

■ CA Service Desk—r12.1

Note: You do not need to install this software on the same computer as the Enterprise Management Server. For information about system requirements for CA Service Desk, see the *CA Service Desk Release Notes*.

CA Access Control Endpoint Management Requirements

The minimum requirements for the CA Access Control Endpoint Management computer are:

- Processor—(Windows) Pentium PC 2.66 GHz, (UNIX) SPARC Workstation 440MHz
- Memory—2 GB RAM
- Available disk space—2 GB at installation directory; 3 GB at %TEMP% (Windows) or /tmp (UNIX)

In addition, the CA Access Control Endpoint Management computer should have the following software installed:

- JDK—Java Development Kit (JDK) 1.5.0 or higher
- Application server—JBoss Application Server version 4.2.3.GA
- CA Access Control—Latest version of endpoint installation

Note: The version of CA Access Control endpoint you install must be the same as the version of CA Access Control Endpoint Management that you plan to install.

On the end user's computer you need a minimum screen resolution of 1024 x 768 and the following as your web browser:

- Windows—Microsoft Internet Explorer 6.x or 7.x or 8.x; or Mozilla Firefox 2.x or 3.0 or 3.5
- Linux—Mozilla Firefox 2.x or 3.0 or 3.5

Enterprise Reporting Requirements

If you use Oracle Database 10g or Oracle Database 11g as your central database (RDBMS), do the following before you install the CA Access Control Enterprise Management:

- Verify that the Oracle host and the CA Business Intelligence host can communicate.
- Install Oracle Client software on the CA Business Intelligence host.
- Verify that the Oracle TNS definition on the CA Business Intelligence host points to the central database.

If you use Microsoft SQL Server 2005 or Microsoft SQL Server 2008 as your central database (RDMBS), do the following before you install the Report Server:

 Verify that the MS SQL host and the CA Business Intelligence host can communicate.

Important! If you use Microsoft SQL Server as the reporting database, install the Report Portal on a supported Windows operating system.

Distribution Server Requirements

The minimum requirements for the Distribution Server computer are:

- Processor—Pentium PC 266 MHz
- Memory—2 GB RAM
- Available disk space—2 GB at installation; 1 GB at %TEMP% (Windows) or /tmp (UNIX)

In addition, the Distribution Server computer must have the following software installed:

■ JRE—Java Runtime Environment (JRE) 1.5.0 18 or higher

Windows Endpoint Requirements

The minimum requirements for a CA Access Control Windows endpoint are:

- Processor—Intel-based Pentium 4 PC 1.6 GHz
- Memory—128 MB RAM
- Available disk space—100 MB

In addition, you need disk space for your CA Access Control database, which is the repository of records describing your users and user groups, your protected files and other resources, and the authorizations that permit controlled access to the resources. For example, a database for one thousand users, with one thousand files, and five hundred access rules, occupies approximately 2 MB of disk space.

UNIX Endpoint Requirements

The minimum requirements for a CA Access Control UNIX endpoint are:

- Memory—1 GB RAM (2 GB recommended)
- Available disk space—250 MB (300 MB for general installations)

In addition, you need disk space for your CA Access Control database, which is the repository of records describing your users and user groups, your protected files and other resources, and the authorizations that permit controlled access to the resources. For example, a database for one thousand users, one thousand files, and five hundred access rules, occupies approximately 2 MB of disk space.

Policy Model Database Requirements

In addition to endpoint space requirements, you also need additional disk space for each Policy Model you plan to create on the host. Each Policy Model contains a database so you need to calculate the space requirements in the same manner as you did for your CA Access Control database.

If you are upgrading and have all your Policy Models databases (PMDBs) in place already, record the space each of the PMDBs uses in the *ACInstallDir/policy_model_path/*pmdb_name directory before you upgrade. Use the following calculations to estimate the additional disk space you will need for upgrading each PMDB:

- ACInstallDir/policies/pmdb_name/subscribers.dat (size) x 2
- ACInstallDir/policies/pmdb_name/updates.dat (size) x 5 + 1000 KB

UNAB Requirements

The minimum requirements for UNAB are:

- Memory—128-MB RAM (256 MB recommended)
- Available disk space—100 MB

Also, you must have an Active Directory server configured, depending on the installation type:

- Windows Server 2000 SP4, if you have a partial integration installation
- Windows Server 2003 SP2 R2, Windows Server 2008 R2, if you have a full integration installation

Further, complete the following before you install UNAB:

- Verify that the clocks synchronization between the UNIX and Active Directory computers.
- Synchronize the clocks between the Distribution Server and UNAB computers.
- Verify forward and reverse name resolution for UNIX endpoints and domain controllers from both UNIX and Active Directory servers.
- (Optional) Check for UNAB system compliance.
 - This check runs automatically when you install UNAB.
- (Optional) If you want to implement full integration mode, install a tool that lets you view and modify the UNIX attributes of Active Directory users and groups.

Note: For more information about these prerequisite tasks, see the *Implementation Guide*.

Chapter 5: Documentation

This section contains the following topics:

Guides (see page 27)

Guides

The guides for CA Access Control Premium Edition r12.6 are as follows:

- Release Notes
- Implementation Guide
- Endpoint Administration Guide for Windows
- Endpoint Administration Guide for UNIX
- Enterprise Administration Guide
- Integration Guide for ObserveIT Enterprise
- Reference Guide
- selang Reference Guide
- Troubleshooting Guide

Note: To view PDF files, you must download and install a Portable Document Format (PDF) reader. The CA Access Control documentation requires Adobe Reader 7.0.7 or later. You can download Adobe Reader from the Adobe website if it is not already installed on your computer.

In addition to the PDF guides, the CA Access Control guides are also available in HTML format and Online Help is accessible from the various web-based interfaces.

Chapter 6: FIPS Compliance

This section contains the following topics:

FIPS Operational Modes (see page 29)

Unsupported Operating Systems for FIPS-only Mode (see page 29)

FIPS Encryption Libraries (see page 29)

FIPS Algorithms Used (see page 30)

Storage of Keys and Certificates (see page 30)

Features Affected (UNIX) (see page 30)

Features Affected (Windows) (see page 32)

FIPS Operational Modes

CA Access Control has two FIPS operational modes: FIPS-only and regular. In FIPS-only mode, CA Access Control uses only those cryptographic functions that are FIPS 140-2 compliant. This means that some CA Access Control features are disabled in FIPS-only mode. In regular mode CA Access Control uses both FIPS 140-2 cryptographic functions and non-FIPS compliant functions.

Note: To switch between FIPS-only mode and regular, use the fips_only configuration setting in the crypto section.

Unsupported Operating Systems for FIPS-only Mode

FIPS-only mode is not supported on the following CA Access Control supported operating system architectures:

- Linux s390
- Linux Itanium (IA64)
- Solaris x64
- Windows Itanium (IA64)

FIPS Encryption Libraries

In FIPS-only mode CA Access Control uses the CAPKI encryption library. On UNIX systems it uses the OS encryption library for password encryption ("crypt" method). In regular mode, CA Access Control uses the CAPKI 4.1.2 encryption library in addition to the non-FIPS encryption libraries.

FIPS Algorithms Used

CA Access Control components use the following cryptographic algorithms. Different components use different algorithms.

- In FIPS-only mode:
 - SSL (TLS 1.0)—client/server communication
 - AES in CBC mode—encryption of PMD update file (Windows), bidirectional password history (Windows)
 - SHA-1—Unidirectional password encryption (Windows), Trusted Programs, policy signatures (advanced policy management)
- In regular mode:
 - CA Access Control r8 SP1 encryption libraries (DES, Triple DES, AES, MD5, and so on)
 - SSL (SSL V2, SSL V3 and TLS 1.0)—client/server communication
 - SHA-1 (from CAPKI)—used for signatures of trusted programs, signatures of policies
 - AES (from CAPKI)—used for password validation when working with bidirectional password history

Storage of Keys and Certificates

CA Access Control stores keys and certificates as follows.

- Symmetric keys are stored as in eTrust Access Control r8 SP1.
- Certificates (subject certificate, private key, and root certificate) are stored on the file system and protected by CA Access Control.

Note: CA Access Control encrypts the private key using AES symmetric encryption (from the CAPKI libraries) using CA Access Control symmetric key.

Features Affected (UNIX)

The FIPS operational mode can have an effect on the following CA Access Control UNIX features:

Feature	Non-FIPS Mode	FIPS Mode	
PMD update file encryption	Default symmetric key encryption (two-way)	Disabled	

Feature Non-FIPS Mode		FIPS Mode		
Trusted Programs	CAPKI SHA-1 and MD5	CAPKI SHA-1 only		
Bidirectional password encryption	Default symmetric key encryption	Disabled		
Unidirectional password encryption	Operating system's crypt/bigcrypt method	Operating system's crypt/bigcrypt method		
PMD TNG command	Default symmetric key encryption	Disabled		
CA Access Control TNG daemon	Default symmetric key encryption	Disabled		
LDAP password encryption usage (sebuildla -u -n)	Default symmetric key Disabled encryption			
LDAP password encryption generation (seldapcred)	Default symmetric key encryption	Disabled		
TCP communication	Default symmetric key encryption (two-way) or CAPKI sockets over SSL V2, SSL V3, or TLS V1	CAPKI sockets over TLS V1		
seversion utility	CAPKI SHA-1	CAPKI SHA-1		
Trusted Programs (watchdog and seretrust)	CAPKI SHA-1	CAPKI SHA-1		
Advanced policy management policy distribution	CAPKI SHA-1 signature, and for backwards compatibility, CA Access Control internal SHA-1 signature	CAPKI SHA-1 signature only		
selogrd encryption	Default symmetric key encryption and MD5	Disabled		
sechkey key change	Default symmetric key encryption	Disabled		
iRecorder log file signature	MD5 encryption Disabled			
Report Agent	Enabled	Disabled		
PUPM Agent	Enabled	Disabled		
DMS	Enabled	UNAB endpoints management disabled		

Note: Where a feature is disabled as a result of the FIPS operational mode, the relevant program prints an error message and exits, or writes the error message to the system log if a non interactive process occurred. For example: Report Agent or PUPM Agent.

Features Affected (Windows)

The FIPS operational mode can have an effect on the following CA Access Control Windows features:

Feature	Non-FIPS Mode	FIPS Mode	
PMD update file encryption	Default symmetric key encryption (two-way)	CAPKI AES symmetric key encryption	
Password history (non-bidirectional)	Saved as CAPKI SHA-1. Password validation with CAPKI SHA-1 and fall through to crypt	Saved as CAPKI SHA-1. Password validation with CAPKI SHA-1 only	
Password history (bidirectional)	Default symmetric key encryption. Password validation with default symmetric key encryption	CAPKI AES symmetric key encryption. Password validation with CAPKI AES only.	
sechkey key change, password history	Default symmetric key encryption to decrypt and encrypt password history	CAPKI AES symmetric key encryption to decrypt and encrypt password history	
sechkey key change, policy model	Default symmetric key encryption to decrypt and encrypt policy model update files	CAPKI AES symmetric key encryption to decrypt and encrypt policy model update files	
Trusted Programs	CAPKI SHA-1 and MD5	CAPKI SHA-1 only	
Mainframe password synchronization	Enabled	Disabled	
iRecorder	Enabled	Disabled	
TNG integartion	Enabled	Disabled	
Advanced policy management policy distribution	CAPKI SHA-1 signature, and for backwards compatibility, CA Access Control internal SHA-1 signature		
Report Agent	Enabled	Disabled	
PUPM Agent	Enabled	Disabled	

Feature	Non-FIPS Mode	FIPS Mode
DMS	Enabled	UNAB endpoint management disabled

Note: Where a feature is disabled as a result of the FIPS operational mode, the relevant program prints an error message and exits, or writes the error message to the system log if a non interactive process occurred. For example: Report Agent or PUPM Agent.

You should also consider the following:

- When moving from non-FIPS to FIPS, the policy model *cannot* read old commands.
- When moving from FIPS to non-FIPS, the policy model *can* read old commands.
- For non-bidirectional password history, there is no impact when not using crypt in FIPS mode. Crypt is only for backwards compatibility.
- For bidirectional password history, moving from non-FIPS to FIPS, CA Access Control cannot decrypt old passwords.

Chapter 7: Feature Support Limitations

This section contains the following topics:

<u>IPv6 Support</u> (see page 35)
<u>Windows Endpoint Limitations</u> (see page 35)
<u>UNIX Endpoint Limitations</u> (see page 38)
<u>UNAB Limitations</u> (see page 39)
PUPM Limitations (see page 39)

IPv6 Support

CA Access Control runs in an IPv4-only environment, an IPv6-only environment, or a mixed environment of both IPv4 and IPv6.

Note: (UNIX) selogrd and selogrcd will not work in IPv6-only environments.

CA Access Control does not currently support network access controls on IPv6 networks. This affects the HOST, CONNECT and TCP classes.

You can specify IP addresses to CA Access Control in IPv6 format, except that the mask and match feature of HOSTNET class records requires IPv4 format addresses.

Windows Endpoint Limitations

This section describes feature support limitations for Windows endpoints.

x64 Feature Support Limitations

The following are known limitations on Windows 2003 x64:

- Unicenter TNG migration and integration
- Mainframe password synchronization
- Impersonation interception (class SURROGATE functionality), if SurrogateInterceptionMode is set to 1

Important! Impersonation interception is supported on x64, IA64 and x86 platforms by default via the RunAs plug-in (SurrogateInterceptionMode is set to 0).

Note: For more information about the SurrogateInterceptionMode registry setting, see the *Reference Guide*.

IA64 Feature Support Limitations

The following features are not supported on IA64 platforms:

- Unicenter TNG migration and integration
- Mainframe password synchronization
- STOP
- Report Agent
- PUPM Agent
- SSL
- FIPS 140-2 compliance

Windows Server 2008 Feature Support Limitations

The following are known limitations on Windows Server 2008:

Impersonation interception (class SURROGATE functionality), if
 SurrogateInterceptionMode is set to 1

Important! Impersonation interception is supported on x64, IA64 and x86 platforms by default via the RunAs plug-in (SurrogateInterceptionMode is set to 0).

Note: For more information about the SurrogateInterceptionMode registry setting, see the *Reference Guide*.

SAN Support

CA Access Control supports a SAN (storage area network) environment when you install CA Access Control on:

A local file system and use it to protect files on a SAN, when the SAN is accessible from a single host.

Note: If the SAN is accessible from multiple hosts, install CA Access Control on each host that can access the SAN and use each installation to protect files on the SAN.

- A SAN disk, subject to the following limitations:
 - CA Access Control drivers must be installed on the local file system.
 - You must manually start CA Access Control on the SAN disk each time you start or restart the computer. Do not start CA Access Control automatically when you start or restart the computer.

Note: The previous condition only applies when you install CA Access Control on a SAN disk. If you install CA Access Control on a local file system and use it to protect files on a SAN, you do *not* need to manually start CA Access Control each time you restart the computer.

If the SAN is accessible from multiple hosts and CA Access Control is installed on the SAN, and you want to install CA Access Control from a different host to the same location on the SAN, consider the following before you begin:

- The new installation of CA Access Control replaces the existing installation of CA Access Control and overwrites the existing CA Access Control configuration files and database.
- You must stop the existing installation of CA Access Control before you begin the new installation.

McAfee Entercept Buffer Overflow

The CA Access Control STOP feature is incompatible with the McAfee Entercept buffer overflow technology.

Turn off the CA Access Control STOP feature or the McAfee Entercept buffer overflow protection feature.

Short File Name Rules (8.3 Format) Are Not Supported

CA Access Control does not support rules created as short file names (8.3 format). When you define any of the following classes, you must enter the full path name of the file or directory:

FILE, PROGRAM, PROCESS, SECFILE, SPECIALPGM

The following is an example of a rule using a full path name:

```
nr file ("C:\program files\text.txt")
```

The following is an example of a rule using a short path name that is *not* supported:

```
nr file ("C:\progra~1\test.txt")
```

UNIX Endpoint Limitations

This section describes feature support limitations for UNIX endpoints.

HP-UX Feature Support Limitations

The following are known UNAB and CA Access Control limitations on HP-UX operating systems:

- HP-UX Trusted Computing Base (TCB) is not supported.
- seversion utility does not display SHA-1 signature.

Unicenter Integration is Not Supported on HP-UX Itanium and RHEL Itanium

Unicenter integration is not supported on HP-UX Itanium (IA64) and Red Hat Linux Itanium IA64.

PUPM Agent Are Not Supported on Linux IA64

The PUPM Agent is not supported on Linux Itanium (IA64). CA Access Control does not install the PUPM Agent on these operating systems regardless of the selections you make during installation.

Note: UNAB is also not supported on Linux IA64.

SAN Support

CA Access Control supports a SAN (storage area network) environment when you install CA Access Control on a local file system and use it to protect files on a SAN, when the SAN is accessible from the single host where CA Access Control is installed.

Note: If the SAN is accessible from multiple hosts, install CA Access Control on each host that can access the SAN and use each installation to protect files on the SAN.

If the SAN is accessible from multiple hosts and CA Access Control is installed on the SAN, and you want to install CA Access Control from a different host to the same location on the SAN, consider the following before you begin:

- The new installation of CA Access Control replaces the existing installation of CA Access Control and overwrites the existing CA Access Control configuration files and database.
- You must stop the existing installation of CA Access Control before you begin the new installation.

Note: CA Access Control behavior is unspecified when you install it on a SAN and it is executed from multiple connected hosts.

UNAB Limitations

This section describes feature support limitations for UNAB endpoints.

UNAB Not Supported on Linux IA64

Currently, you cannot install UNAB on Linux IA64 operating system.

UNAB is not FIPS140-2 and IPV6 Compliant

Currently, UNAB is not FIPS140-2 and IPV6 compliant.

PUPM Limitations

This section describes feature support limitations for PUPM endpoints and server components.

PUPM Windows Agentless Connector Does Not Support Windows 2000

The PUPM Windows Agentless connector does not support Windows 2000 Server.

PUPM Is Not FIPS140-2 and IPV6 Compliant

Currently, PUPM is not FIPS140-2 and IPV6 compliant.

Advanced CA Access Control and PUPM Integration Limitation

Advanced CA Access Control and PUPM integration (terminal integration) lets you track the original user name of users who use a privileged account to log on to CA Access Control endpoints.

You can use advanced CA Access Control and PUPM integration only if users use automatic login to check out privileged accounts from CA Access Control Enterprise Management.

Chapter 8: Installation Considerations

This section contains the following topics:

Supported Installation Languages (see page 41)
Windows Endpoint Installation Considerations (see page 41)
UNIX Endpoint Installation Considerations (see page 42)
UNAB Endpoint Installation Considerations (see page 43)
Server Component Installation Considerations (see page 43)

Supported Installation Languages

When you install CA Access Control silently, you can specify the language in which CA Access Control is installed. The following are the supported language IDs you can specify and their respective languages:

- 1033—English
- 1041—Japanese
- 1042—Korean
- 2052—Chinese(Simplified)
- 1031—German
- 1040—Italian
- 1036—French
- 1046—Portuguese(Brazilian)
- 1034—Spanish

Windows Endpoint Installation Considerations

This section describes items you should consider when installing CA Access Control on Windows endpoints.

Restart Message Pops Up During Installation, Uninstallation or Upgrade on Windows Server 2008

When you install, uninstall or upgrade CA Access Control on Windows Server 2008, a dialog box may appear informing you that a restart is required after the process is complete. To continue, close the dialog box by selecting OK.

UNIX Endpoint Installation Considerations

This section describes items you should consider when installing CA Access Control on UNIX endpoints.

CA Access Control Supported on Linux s390x 64 bit in 32 bit Mode Only

Valid on Linux s390x 64 bit

Currently, CA Access Control is supported on Linux s390x operating system in 32 bit mode only.

AIX 6.1 Requires TL3 or Later for CA Access Control to Start

Valid on AIX 6.1

To load CA Access Control on AIX 6.1, verify that TL3 or later is installed.

Message Queue for Linux390 Requires J2SE Version 5.0

To use Message Queue functionality on Linux s390 and s390x endpoints, verify that J2SE version 5.0 or later is installed on the endpoint. Message Queue functionality lets you send report data to the Report Portal and audit data to CA Enterprise Log Manager.

Note: You may need to configure the java_home configuration setting in the accommon.ini file. For more information, see the *Implementation Guide*.

Compatibility Library Missing on x86_64bit Linux

By default x86_64 Linux operating systems should not include 32bit compatibility libraries when installed. CA Access Control endpoint requires that the library libstdc++.so.6 exists under the usr/lib directory from rpm libstdc++.

Verify that this library exists on the endpoint before you install CA Access Control.

CA Access Control Installation and Uninstallation Restarts UNAB

When CA Access Control is installed or uninstalled from an endpoint that UNAB is running on, the UNAB agent, uxauthd, is stopped and started.

Propagating CA Access Control and UNAB to a New Solaris Zone

When you setup a new Solaris zone, you must complete several post installation steps before the native operating system completely propagate and run the post installation part of the package and you can propagate CA Access Control and UNAB to the new zone.

Note: For more information on setting up a new zone correctly, see Sun's System Administration Guide: Solaris Containers--Resource Management and Solaris Zones, which is available at the <u>Sun Microsystems Documentation website</u>.

UNAB Endpoint Installation Considerations

This section describes items you should consider when installing UNAB endpoints.

UNAB for Linux 390 Requires J2SE Version 5.0 for Remote Management

To remotely manage Linux s390 and s390x endpoints, verify that J2SE version 5.0 or later is installed on the endpoint. Remote management lets you use CA Access Control Enterprise Management to manage UNAB endpoints.

Note: You may need to configure the java_home configuration setting in the accommon.ini file. For more information, see the *Implementation Guide*.

UNAB Not Supported on Linux s390x 64 bit

Valid on Linux s390x 64 bit

UNAB is not supported on Linux s390x 64 bit operating system.

Server Component Installation Considerations

This section describes items you should consider when installing server components (the Enterprise Management Server, CA Access Control Endpoint Management, and Enterprise Reporting).

CA Access Control Enterprise Management in Brazilian Portuguese and Spanish not Supported on Microsoft Windows Server 2003

Valid on Windows Server 2003

Currently, you cannot install the Enterprise Management Server in Brazilian Portuguese and Spanish on Microsoft Windows Server 2003.

Special Characters in Administrator Name

Valid on Windows

The administrative account user name must not include any special characters. For example: '-' character.

Supported JDK and JBoss Versions

You can find supported JDK and JBoss versions on the CA Access Control Premium Edition Third Party Components DVDs.

Prerequisite Kit Installer Considerations

When using the Prerequisite Kit installer utility to install CA Access Control Enterprise Management from the media, after you are prompted to insert the CA Access Control Enterprise Management DVD, you must select Done to continue. You may also need to close the ProductExplorer window that appears when you insert the DVD.

Superuser Account Required for Server Components Installations

To install any of the CA Access Control server components (such as Endpoint Management and Enterprise Management), you must log in as the superuser (root on UNIX or a member of the Administrators group on Windows).

RDBMS Connection Fails During Installation if Java Cannot Be Found

During CA Access Control Enterprise Management installation, when it tries to connect to the RDBMS, a connection failure may suggest that java.exe cannot be located.

Make sure that the full pathname to java.exe is in the system's PATH environment variable.

Enterprise Management Server Installation Does Not Support Spaces in Installation Path

Valid on UNIX

Do not enter spaces in the installation path when you install the Enterprise Management Server.

Set Up CA Access Control Enterprise Management to Work with Active Directory on Another Domain

If you want to work with an Active Directory that is located outside of the domain that you installed CA Access Control Enterprise Management on, you must change the host TCP/IP settings.

To set up CA Access Control Enterprise Management to work with Active Directory on another domain

On Windows

1. Click Start, Control Panel, Network Connections.

The Network Connections window appears.

2. Right-click the active network connection and click Properties.

The Connection Properties dialog appears with the General tab open.

3. Select Internet Protocol (TCP/IP) and click Properties

The Internet Protocol (TCP/IP) Properties General tab appears.

4. Click Advanced and click the DNS tab in the open dialog.

The Advanced TCP/IP Settings DNS tab appears.

- 5. Click Add and enter the IP address of the DNS server of the domain that Active Directory is located on.
- 6. Select Append these DNS suffices (in order) and click Add to add a suffix.

The TCP/IP Domain Suffix dialog appears.

7. Enter the domain suffix.

Example: company.com

8. Click OK on all open dialogs to confirm your changes and exit.

On UNIX

Verify that the DNS server name of the domain that Active Directory is located on is set to the correct value.

To verify that the DNS domain name, open the file /etc/resolv.conf and verify that the domain is set to the correct value.

Login to CA Access Control Enterprise Management Using Active Directory Administrator Account

When Active Directory is the user store for CA Access Control Enterprise Management, you must log in to CA Access Control Enterprise Management with the Active Directory account that you provided during the installation and not with the built-in superadmin account. When using Active Directory for the user store, the superadmin account is not assigned the admin role of SystemManager and you should not use it to administer CA Access Control Enterprise Management.

CA Access Control Endpoint Management Installation Instructions Refer to Both Editions of CA Access Control

The CA Access Control Endpoint Management installation instructions that are documented in the Installing CA Access Control Endpoint Management chapter of the Implementation Guide apply to both CA Access Control Premium Edition and CA Access Control. Non-CA Access Control Premium Edition users that want to install CA Access Control Endpoint Management should follow these instructions and use the non-Premium Server DVD.

CA Access Control Endpoint Management Shortcut Points to Port Number 8080

By default, the CA Access Control Endpoint Management installer sets the shortcut to port number 8080. To change the default settings, you must run the CA Access Control Endpoint Management installer directly from the CA Access Control Premium Edition DVD and not from the ProductExplorer.

Use the following command line to define the port to use when installing CA Access Control Endpoint Management:

install_EM.exe -DJBOSS_PORT=<18080>

Alternatively, you can edit the CA Access Control Endpoint Management shortcut to point to a different port after the installation.

CA User Activity Reporting Module Supports Only Trusted SSL Connection

When defining the connection settings of the CA User Activity Reporting Module server, define the SSL connection settings. CA User Activity Reporting Module does not support non-SSL connection.

Note: For more information about integrating with CA User Activity Reporting Module, see the *Implementation Guide*.

Special Subscription Needed to View CA User Activity Reporting Module Reports from CA Access Control Enterprise Management

To use view CA User Activity Reporting Module reports from the CA Access Control Enterprise Management interface, apply a special subscription update to your CA User Activity Reporting Module server.

To apply the subscription update

- 1. In CA User Activity Reporting Module, click the Administration tab, the Services subtab, and select the Subscription Module.
- 2. Provide the following RSS feed URL:
 - http://securityupdates.ca.com/CA-ELM/r12/OpenAPI/RSSFeed.xml
- 3. Download and apply all of the modules to CA User Activity Reporting Module.
 - You can now view CA User Activity Reporting Module reports from CA Access Control Enterprise Management.

Synchronize the System Time of the CA Access Control Enterprise Management and Report Portal Computers

If you install the Report Portal on a separate computer to CA Access Control Enterprise Management, you must synchronize the system time of the computers. If you do not synchronize the system times, reports that CA Access Control Enterprise Management generates will remain in a pending or recurring status.

Uninstall Fails if You Are Not the Superuser

To uninstall any of the CA Access Control server components (such as Endpoint Management and Enterprise Management), you must log in as the superuser (root on UNIX or Administrator on Windows). If you are not logged in as the superuser, the uninstall fails.

Chapter 9: Upgrade Considerations

This section contains the following topics:

<u>Versions You Can Upgrade From</u> (see page 49)
<u>Windows Endpoint Upgrade Considerations</u> (see page 49)
<u>UNIX Endpoint Upgrade Considerations</u> (see page 50)
<u>Server Component Upgrade Considerations</u> (see page 52)

Versions You Can Upgrade From

You can upgrade your CA Access Control endpoints to r12.6 from the following versions:

- r12.5.5
- r12.5 SP4
- r12.5 SP3
- r12.5 SP2
- r12.5 SP1
- r12.5
- r12.0 SP1
- r12.0
- Any r8 SP1 CR

You cannot upgrade your CA Access Control endpoints to r12.6 from the following versions:

■ r8 SP1 GA

To upgrade an r8 SP1 GA endpoint, install the latest CR for r8 SP1 before you upgrade to r12.6.

r5.2 and r5.3

To upgrade an r5.2 or r5.3 endpoint, install the latest CR for r8 SP1 before you upgrade to r12.6.

Windows Endpoint Upgrade Considerations

This section describes items you should consider when upgrading CA Access Control on Windows endpoints.

Reboot May Be Required When Upgrading

When you upgrade an endpoint to this release from r12.0 SP1 or later, it is not mandatory that you reboot the computer. After the upgrade, CA Access Control preserves backwards compatibility. However, the upgrade is not complete until you reboot the computer, and all new functionality may not be supported until after the reboot.

When you upgrade an r8.0 SP1 or r12.0 endpoint to this release, you must reboot the computer.

CA Access Control r12.6 Requires a Hot Fix to Manage Policy Models on CA Access Control r12.5 and r12.0 SP1

If you want to use an CA Access Control r12.6 server to manage policy models on r12.5 and r12.0 SP1 endpoints, you must install hot fix T537526 on the r12.5 endpoints and T537569 on the r12.0 SP1 endpoints.

Note: For assistance, contact CA Support at http://ca.com/support.

Change in Default Access to Database

The default access to seosdb, the CA Access Control database, is now none. In r12.5 SP2 and earlier, the default access to the database was read.

Note: CA Access Control internal processes have full access to the database and the NT AUTHORITY\System user has read access to the database.

UNIX Endpoint Upgrade Considerations

This section describes items you should consider when upgrading CA Access Control on UNIX endpoints.

Default Installation Location

The default installation location has changed in r12.0 and is as follows:

/opt/CA/AccessControl

FIPS 140-2 Library Upgrade

This release of CA Access Control uses CAPKI 4.1.2 instead of ETPKI 3.2. The upgrade is automatic and keeps the ETPKI 3.2 libraries on your computer if they are used by other components. To determine whether other components are using ETPKI 3.2, CAPKI uses an internal reference count. When this count equals 0, ETPKI 3.2 uninstalls on upgrade.

Systemwide Audit Mode for UNIX Upgrades

The SYSTEM_AAUDIT_MODE property in the SEOS class specifies the default audit mode for users and enterprise users (systemwide audit mode). When you upgrade to CA Access Control r12.5 SP1 or later, CA Access Control sets the value of the SYSTEM_AAUDIT_MODE property to the value of the DefaultAudit configuration setting in the [newusr] section of the lang.ini file.

Note: The default value of both the SYSTEM_AAUDIT_MODE property and the DefaultAudit configuration setting is Failure LoginSuccess LoginFailure.

Authorization Recognizes Resource Group Ownership

CA Access Control takes into account resource group ownership when checking user authorization to a resource. This behavior was introduced in r12.0. In earlier releases, the authorization process considered only the resource's owner.

For example, you define a FILE resource with a default access of none and no owner that is a member to a GFILE resource with a named owner. In CA Access Control r12.0 and later, the named group owner has full access to the file. In earlier releases, nobody has access to the file.

syslog Messages That Have a Reduced Priority

The following syslog messages have been reduced to informational priority (INFO rather than ERROR):

- CA Access Control daemon going down.
- START-UP: CA Access Control PID=%d
- SEOS_load: use_streams=\$use_streams unload_enable=\$unload_enable
- Loading CA Access Control kernel extension.
- \$prodname kernel extension is already loaded.
- Starting \$SeosBinDir/seosd daemon. (CA Access Control)
- Watchdog started.
- Watchdog initialized Watchdog extensions.

Server Component Upgrade Considerations

This section describes items you should consider when upgrading server components (the Enterprise Management Server, CA Access Control Endpoint Management, and Enterprise Reporting).

Hot Fix Required Before Upgrade to Use Policies and Host Groups Containing Spaces

Valid on Linux

To use policies and host groups with space characters, install the hot fix for the operating system you use, before you upgrade to CA Access Control r12.6.

Software Patch Required to Deploy Policies on Endpoints

To deploy policies on CA Access Control r12.5 endpoints from CA Access Control Enterprise Management r12.6, you must install patch T537526 on the Enterprise Management Server.

Download the software patch from the <u>CA Support website</u>.

CA Access Control Enterprise Management Default Encryption Method Set to 256AES

The CA Access Control Enterprise Management default encryption method is set to 256AES and not scramble.

Chapter 10: General Considerations

This section contains the following topics:

Windows Endpoint Considerations (see page 55) **UNIX Endpoint Considerations** (see page 56) **UNAB Considerations (see page 59)** PUPM Considerations (see page 62) Server Components Considerations (see page 66)

Windows Endpoint Considerations

This section describes items you should consider when using CA Access Control on Windows endpoints.

RunAs Administrator to Start CA Access Control on Windows Server 2008

Valid on Windows Server 2008

To start CA Access Control using the command line options (seosd -start), you must have administrator privileges if the User Account Control (UAC) option is enabled. Run the command prompt using the RunAs option and specify a user account with administrative privileges.

Uninstall Does Not Remove CA License Files

When you uninstall CA Access Control, the CA License files are not deleted. By default, the CA License files are in the CA license directory (for example, C:\Program Files\CA\SharedComponents\CA_LIC).

Uninstall Does Not Remove Data and Log Directories

When you uninstall CA Access Control, the Data and Log directories are not removed. By default, the Data and Log directories are in the following location:

\Program Files\CA\AccessControl\

UNIX Endpoint Considerations

This section describes items you should consider when using CA Access Control on UNIX endpoints.

MultiLoginPgm Replaced by EXECLOGIN Flag

We recommend that you use the LOGINAPPL EXECLOGIN flag instead of MultiLoginPgm token to determine the full path of a special login application.

The EXECLOGIN flag postpones the LOGIN action until the first "exec" event of a login application.

PAM Configuration for CA Access Control Features

CA Access Control PAM features that rely on identifying user login attempts (for example, segrace, serevu, and log audit records) do not work if the line "auth requisite" appears before the CA Access Control line "auth optional pam_module" in the operating system's PAM configuration file.

If you want PAM to write user login attempts, the PAM configuration file should contain the line "auth required <code>pam_module</code>" instead of "auth requisite <code>pam_module</code>". If you specify the control-flag <code>required</code> and the module fails, it continues to next module. If you use the control-flag <code>requisite</code> and the module fails, it exits immediately and does not reach the CA Access Control line and so <code>pam_module</code> does not run.

Note: *pam_module* is the name of the PAM module file on your platform. For example, on Linux, this is pam_unix2.so.

telnet and rsh Require Specific PAM Configuration

You cannot use telnet or rsh to log in to a computer if your PAM configuration file:

Is missing the following lines:

login account optional/usr/lib/security/libpam_unix.1
login account optional/usr/lib/security/pam_seos.sl

To fix this, comment out the CA Access Control line if you want PAM to use the "OTHER account..." line instead, or uncomment the operating system's line.

CA Access Control PAM Module on AIX

Valid on AIX

If you set auth_login=pam in the seos section of the seos.ini file, CA Access Control uses PAM to authenticate users. CA Access Control uses the PAM API library during authentication, but AIX does not provide the PAM library in a shared library format that CA Access Control can easily link to. When CA Access Control attempts to use the PAM API it fails with an error "cannot find /usr/lib/libpam.o". To avoid this error, you must configure the AIX PAM module.

To configure the AIX PAM module on AIX

1. Locate the AIX supplied *libpam.a* archive:

cd /usr/lib

This archive contains the AIX PAM shared library (shr.o).

2. Extract shr.o from libpam.a to /usr/lib:

ar -xv libpam.a

3. Rename shr.o to libpam.o:

mv shr.o libpam.o

4. Verify that change_pam=yes in the passwd section of the seos.ini file.

This configuration setting instructs sepass to use the PAM interface to change passwords.

SNMP Configuration

When you set selogrd to route audit records to SNMP listeners, you can use an SNMP community name that is different from the default name ("public"). To do this, use the following format in the selogrd.cfg configuration file:

snmp gateway@community

gateway

Defines the SNMP gateway host name.

community

Defines the SNMP community name that matches the target SNMP environment.

CA Access Control Generates the Login Session ID

CA Access Control generates at startup the login session ID that it adds to audit log records. This means that a logged on user gets a different session ID within the same terminal session every time CA Access Control restarts. The session ID remains the same only within the same CA Access Control session.

Enterprise Users Do Not Correspond to the _undefined User

If you use enterprise users (osuser_enabled is set to 1), CA Access Control does not consider any user as undefined.

Rules for the _undefined user are not relevant in this case.

The All Users Mask (*) Applies to Users That Are Not Defined

If you do not use enterprise users (osuser_enabled is set to 0), users that are not defined in the CA Access Control database are included in rules that apply to all users (using the mask *).

If you want to exclude undefined users from rules that apply to all users, create a more specific rule for the _undefined user that defines the required access to users that are not defined in the database.

Audit Log Backup Files Are Protected by Default

By default, CA Access Control protects audit log backup files if you configure settings to keep timestamped backups. This is the same default protection that the size-triggered audit backup file receives. To remove these files, you need to set permissive rules in the database.

Change Encryption Key After You Patch libcryptscr.so.125.0

The symmetric encryption key is embedded in the libcryptscr.so.125.0 library. If you patch this library, the patch may restore the default CA Access Control encryption key. To avoid communication problems, you must always change the encryption key immediately after you apply a patch to libcryptscr.so.125.0.

To change the key, navigate to /opt/CA/AccessControl/lib/libcryptscr.so.125.0 and run sechkey as follows, where *previous_key* is the encryption key that you used before the patch:

sechkey -d previous_key

sechkey replaces the default encryption key with the previous key.

Linux Kernel Recompilation

On Linux, if you recompile your kernel, you must copy the system.map file to the /boot directory to load the CA Access Control daemons.

Compiling API Samples

You should use gmake (GNU make) and not make to compile the API samples.

Do Not Use Administration API Functions Inside a seosd Exit

To avoid deadlocks, do not use any Administration API functions inside a seosd exit.

UNAB Considerations

This section describes items you should consider when using UNAB.

Maximum Supported Active Directory Groups for User

UNAB does not support more than 128 Active Directory groups for user. If a user is a member of more than 128 Active Directory groups, the user is denied log in.

User Name Length Limitation

Valid on AIX

By default, the user name length is limited to eight (8) characters. If you specify an explicit Active Directory user name as user@domain, the full string length is counted toward the maximum limit.

On AIX 5.3 you can change the default limitation to a maximum of 255 characters using the following command:

chdev -l sys0 -a max_logname=N

Ν

Specifies the maximum user name length

Disable Local User Account After Migration

After fully migrating user accounts to Active Directory, you can disable the local UNIX account by adding an asterisk (*) at the beginning of the account entry in the etc/passwd file.

Do Not Set the unab_refresh_interval Token Value to a Short Interval

To avoid performance issues in UNAB, do not set the value of the unab_refresh_interval token value to a short interval.

Do not Set Kerberos dns_lookup_realm to True

Valid for SSO mode

We recommend that unless required, do not set the Kerberos dns_lookup_realm value to true. When set to true, Kerberos initiates unnecessary DNS searches that can result in a substantial slowdown of UNAB login processing.

UNAB Users Cannot Change Account Password According to Specified Password Policy

If UNAB users cannot change their account passwords, verify that the Domain Controller security policy you use does not prohibit users from changing their account passwords.

sepass Integration with UNAB Endpoints

The sepass utility is integrated with UNAB. The integration lets users change their Active Directory passwords on endpoints on which both CA Access Control and UNAB are installed.

To integrate sepass with UNAB:

- Verify that you set the "change_pam" token value, in the seos.ini file, to yes. Configure this token to instruct sepass to change passwords using the PAM interface.
- Verify that you set the "auth_login" token value, in the seos.ini file, to pam.
 Configure this token to instruct sepass to validate existing passwords using the PAM interface.

Note: For more information about seos.ini initialization file tokens, see the *Reference Guide*.

Log In to UNAB with Active Directory Account

If you want to log in to UNAB with an Active Directory account that did not previously exist on the local host, follow these steps:

1. Register the UNAB host with Active Directory as follows:

uxconsole -register

2. Activate UNAB as follows:

uxconsole -activate

3. Create a UNAB login authorization (login policy) or local login policy (users.allow, users.deny, groups.allow, groups.deny) to enable Active Directory users to log in.

You Cannot Log In to CA Access Control for UNIX Using 'Administrator' Account When UNAB Is Installed

You cannot log in to a CA Access Control endpoint for UNIX with the 'Administrator' Active Directory user account if UNAB is installed on the endpoint. To work around this problem, you can create userPrincipleName for this account.

CA Access Control Installation and Uninstallation Restarts UNAB

When CA Access Control is installed or uninstalled from an endpoint that UNAB is running on, the UNAB agent, uxauthd, is stopped and started.

PUPM Considerations

This section describes items you should consider when using PUPM.

Windows Agentless Connector Task Scheduler Limitations on Windows Server 2008

Valid on Windows 2008 Server

To manage scheduled tasks on a Microsoft Windows 2008 server Windows Agentless endpoint from a Windows Server 2003, you must modify the settings on the Microsoft Windows 2008 server:

Important: Verify that the user account you specify to manage scheduled tasks is a member of the local Administrators group.

Follow these steps:

- Click Start, Administrative Tools, Windows Firewall with Advanced Security.
 The Windows Firewall with Advanced Security dialog opens.
- 2. Click Change Settings.

The Windows Firewall Settings dialog appears.

- 3. Click the Exceptions tab and select the File and Print Sharing Exception check box.
- 4. Click OK and exit.
- 5. Enable the Remote Registry service. Run the following command from a command-prompt windows:

net start "Remote Registry"

Cannot View Endpoint Types in CA Access Control Enterprise Management

Valid on Windows Server 2003

Symptom:

I cannot select an endpoint from the Endpoint Types pull down menu after installing the Enterprise Management Server.

Solution:

SSL communication is selected by default when installing the Java Connector Server (JCS) during the Enterprise Management Server installation. Remove the secure communication as a temporary fix to resolve the error.

Follow these steps:

1. In CA Access Control Enterprise Management click System, Connection Management, Connector Server, Modify Connector Server.

The Modify Connector Server: Select Connector Server page appears.

2. Search for the java connector server type.

The search result displays the Java Connector Server.

3. Select the option next to the Java Connector Server and click Select.

The Modify Connector Server: page appears.

- 4. Replace the Port value to 20410.
- 5. Clear the Secured checkbox.
- 6. Click Submit.

The Modify Connector Server: page appears with the status message.

7. Click OK.

The changes are saved and the Java Connector Server is modified.

8. Open a command prompt window and enter the following command to stop CA Access Control:

secons -s

Open a command prompt window and enter the following command to start CA Access Control:

seosd.exe -start

- 10. (Optional) Verify that the Endpoint Types were added by performing the following steps:
 - a. In CA Access Control Enterprise Management, click Privileged Accounts, Endpoints, Create Endpoint.

The Create Endpoint: Select Endpoint page appears.

- Select the Create a new object of type Endpoint option and click OK.
 The Create Endpoint page appears.
- c. Click the Endpoint Type drop-down menu.
 Verify that the Endpoint types are available.

Page Refresh Required After Password Check In

A page refresh is required after you terminate a remote session login to an endpoint. CA Access Control Enterprise Management checks in the account password, but does not update the account status.

Specify the PUPM Endpoint NETBIOS Name and Not the DNS Domain Name

When you create a PUPM endpoint in CA Access Control Enterprise Management, the host name that you specify in the Name field must match the host name that appears in World View.

If the endpoint is an Active Directory endpoint, specify the NETBIOS domain name in the Host Domain field. If the endpoint is not an Active Directory endpoint, specify the NETBIOS host name in the Host Domain field, not the DNS domain name. For example, if an endpoint is not an Active Directory endpoint, specify the NETBIOS host name (ACSERVER) in the Host Domain field and not the endpoint DNS domain name (acserver.company.com).

If you specify the DNS domain name, advanced features, such as PUPM Automatic Login, fail.

You Cannot Configure More Than a Single CA Identity Manager Provisioning Connector Server

Do not configure more than a single CA Identity Manager provisioning connector server in CA Access Control Enterprise Management.

Cannot Configure CA Identity Manager Provisioning Connector Server Using SSL Port

When you configure an CA Identity Manager provisioning connector server, do not specify the CA Identity Manager provisioning server SSL port (20390). If you specify the connector server SSL port, the connection to the connector server fails.

PUPM Windows Agentless Connector for Active Directory Search Limitations

When using the PUPM Windows Agentless connector to connect to Active Directory the wild card (*) and retrieve all search options do not work. To search for users you must supply the specific account details.

Do Not Execute the PUPM Privileged Accounts Discovery Wizard on More Than One Endpoint Type Concurrently

PUPM does not support running the Privileged Accounts Discovery Wizard on more than one endpoint type concurrently. Running the wizard on more than one endpoint type concurrently results in failure to create privileged accounts in the PUPM database or, failure to reset the account passwords on discovery.

Always run the discovery wizard on one endpoint type at a time, verify that the wizard successfully completed the tasks and then run the wizard on another endpoint type.

Maximum Recommended Records in the PUPM Feeder CSV is 500 Endpoints or Accounts

We recommend that you limit the number of endpoints or accounts in a single PUPM feeder CSV file to 500.

Cannot Use PUPM to Change Password for the Expert Account

If you use a Check Point firewall on an SSH endpoint, you cannot use PUPM to change the password for the expert account on the endpoint. This restriction means that the expert account must be a disconnected account in PUPM.

SQLCMD Utility Does Not Support Blank Passwords

Valid on SQL Server

The SQL Server command utility sqlcmd does not support blank passwords. If you defined the SQL Server endpoint as a password consumer in CA Access Control Enterprise Management and check out a password from PUPM, do not leave the password field empty. You can specify the account password or any other string as the password.

Server Components Considerations

This section describes items you should consider when using CA Access Control server components (CA Access Control Endpoint Management, CA Access Control Enterprise Management, and Enterprise Reporting).

Enterprise Management Server Does Not Support Solaris

Valid on Solaris

Currently, the Enterprise Management Server does not support Solaris.

Communication Issues between CA Access Control Components and CA Access Control Message Queue

The following CA Access Control components rely on communications with the CA Access Control Message Queue for some functionality:

- Enterprise Management Server
- Report Agent
- DMS
- DH
- UNAB
- PUPM Password Consumers
- Agent Manager

These components may not be able to communicate with the Message Queue if it is not running, the configuration options are not set correctly for the Message Queue host or queue, or a generic network error is present.

If communication between any of these components and the Message Queue cannot be established or breaks down, the communication does not resume automatically when the problem is fixed. To work around this issue you must fix the communication issue and then restart the CA Access Control component.

XUSER and XGROUP Details Not Included in Reports

XUSER and XGROUP related details are not displayed in the CA Access Control Account Management Reports.

CA Access Control Host Name Limitation

The host name of the CA Access Control endpoint must be 15 characters or less. If the host name of the CA Access Control computer exceeds 15 characters, you cannot use CA Access Control Endpoint Management to log into the endpoint.

Automatic Generation of Policy Undeploy Script

When you undeploy a policy that does not have an associated undeploy script, CA Access Control automatically generates the required script to remove the policy. This script is based on the deployment script.

If you want to remove the policy but *keep* the policy rules (from the deployment script), provide an undeployment script with a rule that does not modify anything (for example, er GPOLICY *policyName*).

CA Enterprise Log Manager Does Not Include PUPM, UNAB Reports

In this version, CA Enterprise Log Manager does not include PUPM nor UNAB reports.

Chapter 11: Known Issues

This section contains the following topics:

<u>Installation Known Issues</u> (see page 69) <u>Upgrade Known Issues</u> (see page 74) <u>General Known Issues</u> (see page 75)

Installation Known Issues

This section describes installation known issues for CA Access Control components.

Windows Endpoint Installation Known Issues

This section describes installation known issues for Windows endpoints.

"No Valid Source Could Be Found" Message When Installing From MSI File

A "no valid source could be found" message appears when you upgrade CA Access Control. The message appears if the media that you currently use and the media that was originally used to install CA Access Control have the MSI file at different paths.

To work around this issue, add a registry string named "MediaPackage" and specify the relative path to the CA Access Control msi package. Add the registry string in the following path:

HKLM\Software\Classes\Installer\Products\
CDAFB228040EC5F40AA08B5E852A6D61\SourceList\Media

For example, if you install CA Access Control on a 32-bit Windows operating system, the full path to the msi file is: E:\x86\, where E: is the removable media drive. In the MediaPackage value you specify the value: \x86\

UNIX Endpoint Installation Known Issues

This section describes installation known issues for UNIX endpoints.

RPM Package Verification May Return Errors

When verifying RPM package installations you may receive some verification errors.

These errors do not indicate that there are issues with the functionality of the installed product and you can safely ignore them.

Client-Server Communication Mode Incompatibility

A client set up with non_ssl or all_modes cannot communicate with a server set up with fips only communication mode.

API Libraries for Linux Z-series Are 32-bit

The API libraries that CA Access Control supplies for Linux Z-series (s390x) are 32-bit.

CA Access Control does not supply 64-bit libraries for Linux Z-series (s390x).

HP-UX requires an Updated Patch Level

On HP-UX, CA Access Control requires an updated patch level to install properly. We recommend the following OS patches:

- 11.23 on IA64—Patch PHSS_37492 or OS QPK1123 Bundle that is dated September 2006 or later.
- 11.11 on PA-RISC—OS Path with support for "dld_getenv" or OS QPR Bundle dates December 2006 or later.
- 11.23 on PA-RISC—OS QPK Bundle that is dated December 2006 or later.

PAM Does Not Work on Linux s390x with Older /lib64/libc.so.6 Library

PAM on Linux s390 and s390x does not work if the /lib64/libc.so.6 library on the host is older than the version CA Access Control PAM library was compiled with.

The library version should be 2.3.2 or later.

UNAB Stops During CA Access Control Installation

Valid on Linux

To prevent problems during installation, stop UNAB before you install CA Access Control on the endpoint. The problem can occur if the installed CA Access Control version is newer than that of UNAB, due to common use of the AccessControlShared directory.

UNAB Endpoint Installation Known Issues

This section describes installation known issues for UNAB endpoints.

UNAB Does Not Support CA Access Control r8.0 SP1 and r12.0 SP1

Currently, you cannot install UNAB on CA Access Control r8.0 SP1 and r12.0 SP1 endpoints. Also, UNAB and CA Access Control must be of identical version or service pack.

PUPM Installation Known Issues

This section describes installation known issues for PUPM.

"No Such Method" or "Failed to Reset Password" Error Message for Access Control for PUPM Endpoint Types

Valid on Linux

When you install the Enterprise Management Server on a Linux computer, you receive the following error message when you define Access Control for PUPM endpoints: "No Such Method".

If you specify that CA Access Control Enterprise Management resets a privileged account password on check in, when a user checks in a privileged account on an Access Control for PUPM endpoint they receive the following error message: "Failed to Reset Password".

Follow these steps:

- 1. Stop the Java Connector Server. Do the following:
 - a. Navigate to the following directory, where ACServerInstallDir refers to the directory where the Enterprise Management Server is installed:

ACServerInstallDir/Connector_Server/bin

b. Run the following command:

```
./im_jcs stop
```

The Java Connector Server stops.

- 2. Open the im jcs script for editing.
- 3. Locate and remove the following line from the script:

```
PREJAR="$FULLBASEPATH/bin/jcs-bootstrap.jar:$FULLBASEPATH/conf:$FULLBASEPATH/lib/jcs.jar:"`echo $FULLBASEPATH/lib/apacheds-server-main-*-app.jar`
```

4. Copy the following line and paste it into the script:

```
PREJAR="$FULLBASEPATH/bin/jcs-bootstrap.jar:$FULLBASEPATH/conf:$FULLBASEPATH/lib/jcs.jar:$FULLBASEPATH/lib/nlog4j__V1.2.25.jar:"`echo $FULLBASEPATH/lib/apacheds-server-main-*-app.jar`
```

Important! Delete the carriage returns in the line after you paste it into the script.

- 5. Save the file.
- 6. Start the Java Connector Server.

```
./im_jcs start
```

The Java Connector Server starts. You can now configure the Access Control for PUPM endpoint type.

Cannot Create Privileged Accounts on Solaris 9

Valid on Solaris 9

You cannot create privileged accounts on Solaris 9 because the password change command is different than the one used by PUPM. To work around this problem, do the following:

1. On the Enterprise Management Server, navigate to the following directory, where *ACServerInstallDir* indicates the directory where you installed the Enterprise Management Server:

ACServerInstallDir/Connector Server/conf/override/sshdyn

- 2. Locate the file ssh_connector_conf.xml and save a copy of the file with another name.
- 3. Open the file you copied and locate the following entry:

```
<param name="sCommand" value="passwd [%user%]" />
```

4. Modify the passwd value to the following:

```
<param name="sCommand" value="passwd -r files [%user%]" />
```

- 5. Save and close the file.
- 6. Create the endpoint type in CA Access Control Enterprise Management and specify the name of the configuration file you modified.

PUPM SSH Device Cannot Set Password If UNAB Is Installed on the Endpoint

Valid on Solaris

If UNAB is installed on a CA Access Control for UNIX endpoint that is configured as a PUPM SSH device, PUPM cannot set privileged account passwords on that endpoint. The reason is that PUPM runs the passwd command without specifying an argument.

To work around this issue

- 1. Create an ssh.xml file using the ssh_connector_conf.xml file. By default, this file is located in the following directory:
 - \AccessControlServerDir\Connector Server\conf\override\sshdyn\
- 2. Locate the <param name="sCommand" value="passwd [%%user%%]" /> tag.
- 4. Save and close the file.

Important! Verify that you create an SSH device endpoint in CA Access Control Enterprise Management and specify the file you created in the Configuration File field.

Server Component Installation Known Issues

This section describes installation known issues for server components (the Enterprise Management Server, CA Access Control Endpoint Management, and Enterprise Reporting).

CA Access Control Enterprise Management Not Supported on Solaris

Valid on Solaris, Linux

The current version of CA Access Control Enterprise Management does not support Solaris.

"Unable to Install Java Virtual Machine" Message Appears During Installation

Valid on Solaris and Linux

The following message appears when you use console installation to install CA Access Control Enterprise Management on a UNIX computer:

Unable to install the Java Virtual Machine included with this installer.

This error message appears due to a known InstallAnywhere issue. The error message does not have any operational effect and you can continue with the installation.

Do Not Use '\$' Character for CA Access Control Enterprise Management Database Password

Because InstallAnywhere recognizes the \$ character as the start of a variable, do not use the \$ character in the CA Access Control Enterprise Management database password. If you use this character in the database password, the installation continues but does not successfully update the database tables.

Upgrade Known Issues

This section describes upgrade known issues for CA Access Control components.

Windows Endpoint Upgrade Known Issues

This section describes upgrade known issues for Windows endpoints.

"Insufficient Privileges to Modify File" Message Appears During Upgrade

If you upgrade a CA Access Control endpoint and a message appears that informs you that the installer has insufficient privileges to modify a file, acknowledge the message and continue with the upgrade.

UNIX Endpoint Upgrade Known Issues

This section describes upgrade known issues for UNIX endpoints.

seaudit, sebuildla Permission Denied Messages After Upgrade

Valid on AIX

After you upgrade using the native package, you may receive permission denied error messages when using the seaudit and sebuildla utilities.

To work around this problem, re-trust the utilities after the upgrade completes.

Pre-r12.0 Versions Must Use a Maximum of 54 Characters for the Encryption Key

If your environment includes versions of CA Access Control earlier than r12.0, you must use a maximum of 54 characters for the encryption key.

UNAB Endpoint Upgrade Known Issues

This section describes upgrade known issues for UNAB endpoints.

UNAB Agent Not Started After Upgrade

After you upgrade, the UNAB agent (uxauthd) is not automatically started. To start the agent, run the uxauthd.sh shell script with the start command from the following directory:

/opt/CA/uxauth/lbin

Server Components Upgrade Known Issues

This section describes upgrade known issues for server components (the Enterprise Management Server, CA Access Control Endpoint Management, and Enterprise Reporting).

Upgrade Unsuccessful if CA Access Control Enterprise Management Installation Directory Is a Link

Valid on Solaris

When you upgrade CA Access Control Enterprise Management, the upgrade fails if the installation directory is a link to the real directory and not the actual installation directory. For example, if the linked directory is /opt/CA and the actual installation directory to the /work/CA directory.

To work around this problem, before you upgrade modify the SEOSPATH token value in the /etc/seos.ini file to point to the linked path instead of the real path.

For example, if the following is the full pathname to the CA Access Control installation directory:

SEOSPATH=/work/CA/AccessControlServer/APMS/AccessControl

Change the SEOSPATH to point to the linked path, as follows:

SEOSPATH=/opt/CA/AccessControlServer/APMS/AccessControl

General Known Issues

This section describes general known issues for CA Access Control components.

Windows Endpoint Known Issues

This section describes known issues for CA Access Control for Windows.

Audit Filter in CA Access Control Endpoint Management Causes Performance Degradation

Applying a filter on the audit records in CA Access Control Endpoint Management may lead to performance degradation if CA Access Control Endpoint Management cannot find the specified records.

For example, if you defined the audit records filter to display the last 100 related records of a specific FILE resource and the audit file contains less than 100 records, CA Access Control Endpoint Management will repeat the request indefinitely.

Microsoft Internet Explorer 7.0 Compatibility Issues with CA Access Control

Due to compatibility issues of Microsoft Internet Explorer 7.0 with CA Access Control, the browser may stop responding. To work around the issue, Install Microsoft Internet Explorer 8.0 or do the following:

Important! Apply Microsoft software patch KB957388 before you begin this procedure. You can download the software patch from the Microsoft web site.

- 1. Stop all CA Access Control services.
- 2. Open a command line window and run the following command:

net stop cainstrm

- 3. Open the regedit utility from the Run command line window.
- 4. Navigate to the following path:

 $\label{thm:local_machine} \begin{tabular}{l} HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSset\Services\calescapes and the services and the services and the services and the services are services. The services are services and the services are services and the services are services as the services are services as the services are services. The services are services are services are services are services and the services are services are services and the services are services are services and the services are services are services are services. The services are services and the services are services and the services are servi$

- 5. Modify the ExcludeProcess registry entry value to include the iexplorer.exe file.
- 6. From the command line window, run the following command:

net start cainstrm

7. Start the CA Access Control services.

Privileged Processes Can Save and Restore a Registry Tree Without Authorization

On Window Server 2003 and later, when a process obtains the special privileges SE_BACKUP_NAME and SE_RESTORE_NAME, it can save and restore a registry tree without CA Access Control authorization.

FIPS Only Mode on Windows x64

CAPKI 4.1.2 is now supported on x64 CA Access Control endpoint for Windows. However, due to a known issue with RSA, when running the CAPKI 4.1.2 in FIPS enabled mode, communication is significantly delayed.

Rename HOST Event in selang Marked as Unknown Event in CA Enterprise Log Manager Reports

A rename HOST event performed in selang is displayed as an unknown event in CA Enterprise Log Manager reports.

UNIX Endpoint Known Issues

This section describes known issues for CA Access Control for UNIX.

CAWIN Installation Fails on a Minimal Linux x64 Installation

Valid on Linux x64

The CAWIN installation fails when installed on a minimal Linux x64 installation. The installation fails because of a missing 32 bit library.

Note: CAWIN is part of CA Access Control installation. CAWIN related error messages are logged in the CA Access Control installation log file.

To workaround this issue, install the 32 bit neurses RPM package with the libneurses.co file. Verify that the package version is not below version 5.0. For example:

ncurses-devel-5.7-3.20090208.el6.i686.rpm

Failed Login Events Not Audited When serevu Daemon Running

Valid on VMware vCenter 4.0 u2

When CA Access Control is installed on VMware vCenter version 4.0 u2, the following occurs when the serevu daemon is running:

- A LOGIN records for failed login events do not appear in audit file
- The pam seos failed login.log file size is 0

To work around this issue, do the following:

- 1. Stop all CA Access Control daemons.
- 2. Navigate to the following directory:

```
/etc/pam.d/
```

3. Edit the system-auth file to remove all references to pam_seos.so. For example: account required pam_per_user.so /etc/pam.d/login.map auth required pam_per_user.so /etc/pam.d/login.map password required pam_per_user.so /etc/pam.d/login.map session required pam_per_user.so /etc/pam.d/login.map

4. Edit the system-auth-generic file to add reference to pam_seos.so. For example:

```
password sufficient pam_seos.so
auth optional pam_seos.so
account optional pam_seos.so
session optional pam_seos.so
```

5. Edit the system-auth-local file to add references to pam_seos.so. For example:

```
password sufficient pam_seos.so
auth optional pam_seos.so
account optional pam_seos.so
session optional pam seos.so
```

- 6. Save and close the files.
- 7. Start CA Access Control daemons.

SSH Login Not Audited by CA Access Control or by Audit Log if SElinux Enabled

Valid on RedHat Linux Advanced Server 6

On RedHat Linux Advanced Server 6, SSH user log ins are not audited by CA Access Control because the SElinux default policy does not allow SSHD to access the /proc file system.

To workaround this issue, run the /opt/CA/AccessControl//lbin/sshd_policy.sh script to load a SElinux policy module to allow access to /proc.

Cannot Configure JBoss JDBC Password Consumer on Linux

Valid on Linux

Currently, you cannot configure a JBoss JDBC password consumer on Linux.

Log in to CA Access Control Requires PAM_Login Flag Enabled

Valid on AIX

If the PAM_login flag is not enabled, CA Access Control cannot detect the Active Directory user account correctly.

To work around this problem, enable the PAM_login flag in the log in program (LOGINAPPL) you set. Verify that seosd daemon accepts log in requests from PAM modules by setting the PamPassUserInfo token to 1 in seos.ini under the [pam_seos] section.

User Sessions Are Not Logged when Default Shell Is Not Defined in /etc/shells

Valid for Keyboard Logger

CA Access Control does not record user sessions when a user logs in with a shell that is not defined in /etc/shells.

When PAM is Active segrace Is Not Called for FTP and SSH Grace Login

When PAM is activated, segrace is not called automatically for a grace login to FTP and SSH services.

To work around this issue on FTP, change the value of the LOGINFLAGS property to nograce in the LOGINAPPL record for the FTP service.

To work around this issue on SSH, do not call segrace from PAM. Instead, call segrace from the user or operating system startup script.

CA Access Control Does Not Reset Passwords Once the Grace Period Expires

Valid on Solaris, HPUX, and AIX

If UNAB is installed on the CA Access Control endpoint, CA Access Control PAM does not invoke the 'sepass' utility to reset the account password when the user password grace period expires.

This problem affects login applications that use loginflags(pamlogin), for example, SSH login, rlogin, FTP, and Telnet. SSH login will not be recognized as a login action by CA Access Control on Solaris, HPUX and AIX. To work around this problem, use loginflags(none) for SSH login applications.

Solaris Network Event Bypass Does Not Work for Some Processes

CA Access Control on Solaris does not bypass network events (bypass type PBN of SPECIALPGM records) for processes that start before CA Access Control starts.

Stat Interception Calls Not Supported on AIX Systems

File access check on a stat system call with the STAT_intercept token set to "1" is not supported on AIX systems.

UNAB Known Issues

This section describes known issues for UNAB.

uxconsole -register Returns Incorrect Active Directory Site Name

UNAB registration command returns an incorrect Active Directory server name if the Active Directory server is a member of a forest.

To workaround this issue, run uxconsole -register command with the -t *site* argument and specify the Active Directory site to that contains the DCs that UNAB uses to communicate with Active Directory.

Hot Fix for Microsoft Windows Server 2003 to Improve Performace

Valid on Windows Server 2003 SP1, Windows Server 2003 64 Bit

LDAP queries fails to return Active Directory queries results for extended search using LDAP_MATCHING_RULE_IN_CHAIN.

To workaround this issue, install the latest service pack for MIcrosoft Windows 2003 Server or disable the UNAB group update during log in by setting the wingrp_update_login token to no.

Note: For more information, see Microsoft Knowledge Base article 914828.

You Cannot Use the CA Access Control UNIX Attributes Plug-in to Set Empty GECOS Attributes

You cannot use the CA Access Control UNIX Attributes Plug-in to set an empty GECOS attribute to an Active Directory user.

Uxpreinstall Utility Fails to Verify Host Name Resolution

The uxpreinstall utility fails to verify the host name resolution after you install UNAB and before you register with Active Directory.

To work around this problem, use the -d argument to specify the Active Directory domain name. For example:

./uxpreinstall -d domain_name

Uxpreinstall Utility Reports Host Name Resolution Error

Valid on AIX

The uxpreinstall utility reports a host name resolution error when /etc/netsvc.conf file does not contain the DNS data source.

Uxconsole -manage -group is Case Sensitive

The group name in the -manage -group <groupname> command is case sensitive.

Incorrect Conflict Message During Users Migration

During the users migration process, an incorrect conflict message appears reporting a mismatch when comparing a UNIX user that is not assigned GECOS parameters with the corresponding Active Directory user account.

Telnet and rlogin Programs Not Displayed in Audit Records

Valid on Linux, HP-UX

The UNAB audit records do not display the telnet and rlogin login programs. In Linux, the UNAB audit records show "remote" instead of telnet or rlogin. On HP-UX the UNAB audit records show "login" instead of telnet or rlogin.

Core Dump When Registering Host with Active Directory

Valid on AIX 5.3

If the /etc/resolv.conf file does not contain the Active Directory server name, an attempt to register the host with Active Directory results in a core dump.

Interval between uxconsole -register and -deregister Commands

If you register then deregister a UNAB host in Active Directory, after you register the host, we recommend that you wait the time necessary for domain controller replication before you deregister the host.

Note: If you deregister a UNAB host, policies that were not distributed are deleted.

New Domain User Login May Fail on First Attempt

Valid for SSH

If you create a user in Active Directory and the new user immediately tries to log in to a UNAB endpoint, the first login attempt fails but subsequent login attempts succeed. The first login attempt fails because the user is not known to the endpoint. However, during the failed login process, uxauthd updates the local NSS storage with the user information. Subsequent login attempts succeed because the user is now known to the endpoint.

By default, uxauthd updates the user information in the NSS storage every hour. If the new user tries to log in to the endpoint after uxauthd updates the NSS storage, the login succeeds.

Rlogin Entries Logged Twice

Valid on Linux

If you log in to a host that has UNAB installed using rlogin, the login attempt appears in the audit twice.

Login Services Bypass PAM on SSO Login

Several login services bypass PAM on SSO login. The login policy is not applied and audit events are not generated.

Successful Login to Host Generates an Error Message

Valid for Linux, AIX, HP-UX

A limitation in the UNIX PAM flow results in logging a successful login to a UNAB host as an error message, indicating that account authentication failed in the syslog file.

"Given password does not match OS Password" Message When Issuing Check Login Command

Valid on Solaris, Linux, HP-UX

The "Given password does not match OS password" error message appears when you issue the checklogin command for Active Directory user that is not authorized to log in. This message is displayed instead of the actual login deny message.

Password Mismatch Message When Changing Password Using sepass

Valid on AIX 5.3

A password mismatch error message appears when a mapped user attempts to change an account password using sepass. Regardless of the error message, the account password is changed on Active Directory.

Active Directory User Cannot Change Password on Solaris

Due to Sun Solaris password limitations, users that are logging in to the UNIX host with Active Directory account, cannot change their account password using Solaris passwd tool. If the user must change the account password on the first login, the user must login from a system other than Solaris.

If UNAB is running on the UNIX host, use the following command to change the local account password:

passwd -r files username

If CA Access Control is running on the UNIX host, use the sepass utility to change the local account password.

Impersonating an Active Directory User Does Not Create Audit Record

If you impersonate an Active Directory user using su, the impersonation attempt is not audited.

sshd Program Name Appears in Audit Records of SFTP Sessions

The audit records of login sessions done using sftp program can display the sshd daemon in the program field and not the sftp program.

UNAB Entries Contain Blank Fields in Event Viewer

UNAB events are displayed in the Windows Event Viewer with blank fields.

FTP SSO Login of Enterprise Users Not Audited

Valid for Solaris

Kerberized FTP and telnet programs bypass the PAM stack and therefore, UNAB does not audit FTP and telnet SSO logins of enterprise users.

Duplicate Audit Records Produced for rlogin by Domain User on Linux SuSE Endpoints

Valid on Linux SuSE

If you implement UNAB in full integration mode on a Linux SuSE endpoint, and a domain user uses rlogin to log in to the endpoint, UNAB creates two audit records for the same login event.

Deregistering SSO Enabled UNAB Does Not Delete Records from Keytab File

When you deregister a UNAB host that was previously registered with SSO enabled, the computer object is removed from Active Directory, but the corresponding records are not deleted from the keytab file. If you attempt to register the UNAB host again, the Kerberos ticket is not created.

To overcome this problem, we recommend that you do not deregister UNAB hosts, or remove the keytab file if it is used by UNAB hosts only.

HP-UX Does Not Support @ Symbol in Passwords

Valid on HP-UX

Due to an HP-UX limitation, do not use the @ symbol in passwords on HP-UX endpoints.

HP-UX Does Not Support Fully Qualified Domain Name Login

Valid on HP-UX

You cannot log into a HP-UX host with a fully qualified domain name, for example: user@domain.

PUPM Known Issues

This section describes known issues for PUPM.

Failure to Create Endpoint When Using CA Directory and Oracle

Valid on CA Directory, Oracle

CA Access Control Enterprise Management fails to create an endpoint when using CA Directory user directory and Oracle RDBMS.

To workaround this issue, execute the following sql command:

ALTER TABLE takesession12 MODIFY(org dn NULL)

Telnet Automatic Login Not Supported on Solaris After Upgarde

Valid on Solaris

Currently, Telnet automatic login is not supported on Solaris after you upgarde to CA Access Control r12.6.

Custom Participant Resolvers Removed After Upgrade

Custom participant resolvers that you configured are removed after you upgraded to CA Access Control r12.6.

We recommend that you make a note of the custom participant resolvers before you upgrade to CA Access Control r12.6 and recreate them once you completed the upgrade.

Discover Service Accounts Wizard Displays Services and Tasks

The Discover Service Accounts Wizard displays both services and tasks when executed. To help you identify services from the list, the services are marked with an icon.

Service Accounts Wizard Ignores Host Names Longer Than 15 Characters

Valid on Windows

The service accounts wizard ignores scheduled tasks on hosts with more than 15 characters in their host names.

Changes to Windows Services and Scheduled Tasks Are Not Discovered

Valid on Windows Server 2003

Symptom:

When you change a Windows Service or Windows Scheduled Task, the changes cannot be discovered.

Solution:

This is a known Microsoft issue. After you change the service or task on the endpoint, delete the existing password consumer. Use the Service Account Discovery Wizard to create a password consumer.

Approval of Service Account Password Request Fails

After you submit a request for a service account password, the request is not sent to the request approver and you cannot check out the service account password.

No Audit Record for Password Retrieval by JDBC Password Consumer

The Enterprise Management Server does not write an audit record when a JDBC password consumer gets a password from CA Access Control Enterprise Management.

Error Message When You Use Automatic Login to Log in to Oracle Enterprise Manager

Valid on Oracle

An error message appears when you use the automatic login option to log into the Oracle Enterprise Manager after you checked out an administrator account password. The error message appears if you terminated the last session by closing the browser window without logging off.

Remote Desktop Connection Fails When Endpoint Prompts for Password

Valid on Windows

The Windows Remote Desktop automatic login script fails to log into the endpoint if the endpoint Terminal Services settings are configured to always prompt for password on login.

PUPM Accepts Ticket Numbers for Closed CA Service Desk Tickets

Valid for integration with CA Service Desk

If you specify the number for a closed CA Service Desk issue or request ticket (ticket type=iss or cr) when you request access to a privileged account, CA Access Control Enterprise Management forwards the request to the approver.

Cannot Specify CA Service Desk Change Order Ticket Number

Valid for integration with CA Service Desk

If you specify the number for a CA Service Desk change order ticket (ticket type=ch) when you request access to a privileged account, CA Access Control Enterprise Management does not forward the request to the approver.

Server Components Known Issues

This section describes known issues for CA Access Control server components (CA Access Control Endpoint Management, CA Access Control Enterprise Management, and Enterprise Reporting).

Out of Memory Error:GC Overhead Limit Exceeded

Valid on UNIX

The following error message appear in the JBoss server log if the system or garbage collection settings are not properly configured:

"java.lang.OutOfMemoryError: GC overhead limit exceeded"

To solve this issue, do the following:

- 1. Stop the JBoss application server.
- 2. Navigate to the following directory, where JBOSS_HOME indicates the location where you installed JBoss:

JBOSS_HOME\bin

- 3. Edit the run_idm.bat file.
- 4. Locate the JAVA OPTS variable and add the following arguments:
 - $\label{thm:concomplex} $$ -XX:+UseConcMarkSweepGC $$ -XX:+UseConcMarkSweepGC $$ AVA_0PTS\%" $$$
- 5. Save the file and exit.
- 6. Start the JBoss application server.

Example: the JAVA_OPTS variable

The following example shows the JAVA_OPTS variable after you added the new arguments:

set JAVA OPTS=-Djava.security.policy=.\workpoint client.policy -Xms512m -Xmx1024m

- -XX:MaxPermSize=256m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled
- -XX:+UseConcMarkSweepGC %JAVA_OPTS%

Default Request Approver Not Configured

Valid on SunOne

If you use SunOne user directory, you need to configure the default request approver. You define the default request approver that all privileged account passwords requests are submitted to.

To configure the default request approver, do the following:

- 1. Log in to CA Access Control Enterprise Management as a System Manager.
- 2. Select Users and Groups, Tasks, Modify Admin Task.

The Modify Admin Task: Search Admin Task window opens.

3. Enter Privileged Account Request in the Name field, then click Search.

CA Access Control Enterprise Management displays the results that match the search criteria.

4. Select the Privileged Account Request and click Select.

The Modify Admin Task: Privileged Account Request window opens.

5. Navigate to the Events tab and select the workflow process

The Workflow Process screen opens.

6. In the Default Approver section, select Add Users.

The Select User screen opens.

7. Enter the name of the user you want to assign as a default approver and select Search.

CA Access Control Enterprise Management displays the results according to the search criteria.

8. Click Select.

The user you selected is added as a default request approver.

9. Click OK to exit.

Note: The default request approver you defined does not apply to users that you created before you installed the Enterprise Management Server. The default request approver for users that previously existed in the user directory is superamdin.

"No Managed Connections Available Within Configured Blocking Timeout" Error Message When Running Batch Operations

"Managed Connections Available Within Configured Blocking Timeout" error message received when you run batch tasks. For example, you attempt to run the automatic reset password task on a large group or accounts. The error message indicates that the JBoss application server has exhausted the available connections and cannot complete the task.

To work around this problem you need to increase the number of available connections in the pool:

- 1. Stop the JBoss application server.
- 2. Navigate to the following directory, where *JBoss_HOME* indicates the directory where you installed JBoss:

JBoss_HOME/server/default/deploy/

- 3. Open the file imtaskpersistencedb-ds.xml for editing.
- 4. Locate the <max-pool-size> tag and set the value to 40.
- 5. Locate the <idle-timeout-minutes> tag and set the value to 1.
- 6. Comment out (<!--) the <blocking-timout-millis> tag as follows:
 - <!--blocking-timeout-millis>5000</blocking-timeout-millis-->
- 7. Save and close the file.
- 8. Start the JBoss application server.

You have increased the number of available connections in the pool. You can now run the task.

JBoss for Windows Sample Policy Failed to Deploy

The JBoss for Windows sample policy fails to deploy on an endpoint. The policy deployment process terminates with an internal error message indicating that a PROGRAM resource already exists.

To work around the problem, use the JBoss sample policy and modify the policy before you deploy it to create PROGRAM resources explicitly.

Error Message Displayed When Viewing Policy Management Reports in CA Access Control Enterprise Management

CA Access Control Enterprise Management displays a message that the task failed when attempting to view policy management reports.

To work around this problem, restart the JBoss application server and the CA Business Intelligence server (Report Portal).

Cannot Use Non-English User Names When Installing the Enterprise Management Server

You cannot specify non-English user names if you specify to use Active Directory when you install the Enterprise Management Server.

To work around this issue, modify the user non-English characters to English characters in Active Directory.

A CA Access Control User Not Defined a Password Cannot Log Into the CA Access Control Enterprise Management Server

An CA Access Control user account without a password cannot log into the CA Access Control Enterprise Management Server.

Access Roles Are Not Supported in CA Access Control Enterprise Management

When you define admin role rules, select users that are members of admin roles. CA Access Control Enterprise Management does not support access roles. The access roles option should not appear in the interface.

"No Operation Required" Message When Modifying UNAB Host or Host Group

When modifying UNAB host or host group settings and submitting the changes, CA Access Control Enterprise Management displays the following message: "No operation required". Although this message indicates that no action was taken, the modifications you made to the UNAB host or host group were applied.

Control Characters May Cause an Application Exception

Control characters in the CA Access Control database may cause an application exception or render incorrectly in CA Access Control Endpoint Management and CA Access Control Enterprise Management.

Incomprehensible Characters In the User Interface

Symptom:

When I log into the CA Access Control Enterprise Management user interface, I see incomprehensible characters.

Solution:

The problem is that the database instance you are using does not fully support UTF8 international characters set. To correct this problem, you must reinstall CA Access Control Enterprise Management on a fully internationalized database instance.

Cannot Change the Trust Property of a Monitored File

In CA Access Control Endpoint Management, clearing the Trust check box on the Audit tab of a monitored file (SECFILE) resource fails when you try to save the changes.

To work around this issue and change this resource attribute, use selang.

CA Access Control Enterprise Management Time-Out When Creating Large Policies

The CA Access Control Enterprise Management user interface times out when you create a policy that contains more than 6000 commands. You cannot continue working in the user interface until CA Access Control Enterprise Management creates the policy. To work around this problem, open a new session by logging in to CA Access Control Enterprise Management from a new browser.

Cannot Deploy Policies That Contain a Trailing Backslash

Conventions for selang let you use a backslash character (\) as the last character of a line to indicate that the command continues on the following line. This is not supported by advanced policy management. Make sure that policy commands do not span multiple lines

Note: The following sample policies CA Access Control provides contain a trailing backslash: AC WEBSERVICE, APACHE, JBOSS, MS SQL SERVER, and ORACLE.

Policy Script Validation Error Messages Are in a Different Language

Valid in CA Access Control Enterprise Management

If a policy deploys with errors, the selang result messages you see in CA Access Control Enterprise Management are in the installation language of the CA Access Control endpoint on the Enterprise Management server and not that of the CA Access Control Enterprise Management installation.

To see these messages in a localized language, you must install the CA Access Control endpoint on the Enterprise Management computer in the desired localized language before you install CA Access Control Enterprise Management.

Cannot View Audit Records for Terminals with Names Longer than 30 Characters

You cannot view audit records if the terminal name has more than 30 characters. This happens when CA Access Control Endpoint Management running on a Windows computer manages a UNIX endpoint.

PMDB Audit Records Are Not Visible When Managing the PMDB

When you manage a PMDB using CA Access Control Endpoint Management, you cannot see the PMDB's audit records.

To work around this issue and view the audit records for the PMDB, connect to host where the PMDB resides.

Documentation Known Issues

This section describes known issues for the CA Access Control documentation set.

No Alternate Text for Graphics In the SDK Guide

There is no alternate text for graphics in the SDK Guide. The SDK Guide was first published with a previous release of CA Access Control and is provided as a courtesy with the CA Access Control r12.5 documentation.

PDF Documentation Requires Adobe Reader 7.0.7

To read the documentation for CA Access Control in print format (PDF files), you must install Adobe Reader 7.0.7 or later. You can download Adobe Reader from the Adobe website if it is not already installed on your computer.

Note: Adobe Reader is not available on HP-UX Itanium (IA64) and Red Hat Linux Itanium IA64.

Appendix A: Third-Party License Agreements

This section contains the following topics:

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Software Under the Apache License (see page 94)
Software Under the Daniel Veillard License (see page 101)
Software Under the OpenLDAP License (see page 103)
Software Under the OpenSSL License (see page 106)
AES 2.4 (see page 112)
AIX JRE 1.4.2 (see page 113)
AIX JRE 1.5.0 (see page 113)
ANTLR 2.7.5H3 (see page 114)
CentOS 5.6 (see page 115)
<u>CPAN Perl 5.8.8</u> (see page 115)
CRC32 (see page 116)
Cyrus SASL 2.1.22 (see page 118)
dom4j 1.5 (see page 121)
Hibernate 3.2 (see page 122)
ICU4C 3.4 (see page 123)
JBoss 4.0.1 SP1 (see page 124)
JBoss Application Server v.4.2.3 (see page 125)
JBoss Native v.2.0.6 (see page 126)
JDOM 1.0 (see page 127)
MD5 Message Digest Algorithm (see page 130)
MIT Kerberos v5 r1.5 (see page 132)
nss Idap 2.62 (see page 155)
Oracle JDBC Driver 10g Release 2 (10.2.0.1.0) (see page 162)
PCRE 6.3 (see page 167)
Rhino 1.6r4 (see page 169)
SAXPath 1 (see page 170)
SHA-1 (see page 173)
Sun JDK 1.4.2_13 (see page 174)
Sun JDK 1.6.0 (see page 184)
Sun JRE 1.5.0 18 (see page 199)
XNTP v.3-5.93 (see page 213)
XScreenSaver (see page 214)
Zlib 1.2.3 (see page 214)
ZThread 2.3.2 (see page 215)
```

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- Axis 1.4
- Axis2 1.1.1
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Rivest [Page 8]

RFC 1321 MD5 Message-Digest Algorithm April 1992

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*/

MIT Kerberos v5 r1.5

This product includes MIT Kerberos v5 r1.5, excluding the OpenVision Kerberos Administration System donated by Kerberos to MIT for inclusion in the standard Kerberos 5 distribution.

Kerberos Version 5, Release 1.5.3

Release Notes

gzcat krb5-1.5.3.tar.gz | tar xpf -

The MIT Kerberos Team

Unpacking the Source Distribution

The source distribution of Kerberos 5 comes in a gzipped tarfile,
krb5-1.5.3.tar.gz. Instructions on how to extract the entire
distribution follow.

If you have the GNU tar program and gzip installed, you can simply do:
gtar zxpf krb5-1.5.3.tar.gz

If you don't have GNU tar, you will need to get the FSF gzip
distribution and use gzcat:

Both of these methods will extract the sources into krb5-1.5.3/src and the documentation into krb5-1.5.3/doc.

Building and Installing Kerberos 5

The first file you should look at is doc/install-guide.ps; it contains the notes for building and installing Kerberos 5. The info file krb5-install.info has the same information in info file format. You can view this using the GNU emacs info-mode, or by using the standalone info file viewer from the Free Software Foundation. This is also available as an HTML file, install.html.

Other good files to look at are admin-guide.ps and user-guide.ps, which contain the system administrator's guide, and the user's guide, respectively. They are also available as info files kerberos-admin.info and krb5-user.info, respectively. These files are also available as HTML files.

If you are attempting to build under Windows, please see the src/windows/README file. Note that this release might not build under Windows currently.

Reporting Bugs

Please report any problems/bugs/comments using the krb5-send-pr program. The krb5-send-pr program will be installed in the sbin directory once you have successfully compiled and installed Kerberos V5 (or if you have installed one of our binary distributions).

If you are not able to use krb5-send-pr because you haven't been able compile and install Kerberos V5 on any platform, you may send mail to krb5-bugs@mit.edu.

You may view bug reports by visiting

http://krbdev.mit.edu/rt/

and logging in as "guest" with password "guest".

Major changes in krb5-1.5.3

[5512] Fix MITKRB5-SA-2007-001: telnetd allows login as arbitrary user [CVE-2007-0956, VU#220816]

[5513] Fix MITKRB5-SA-2007-002: buffer overflow in krb5_klog_syslog [CVE-2007-0957, VU#704024] [5520] Fix MITKRB5-SA-2007-003: double-free in kadmind - the RPC library could perform a double-free due to a GSS-API library bug [CVE-2007-1216, VU#419344]

krb5-1.5.3 changes by ticket ID

- 5512 (krb5-1.5.x) MITKRB5-SA-2007-001: telnetd allows login as arbitrary user
- 5513 (krb5-1.5.x) MITKRB5-SA-2007-002: buffer overflow in krb5_klog_syslog
- 5520 (krb5-1.5.x) MITKRB5-SA-2007-003: double-free in kadmind

Major changes in krb5-1.5.2

- * Fix for MITKRB5-SA-2006-002: the RPC library could call an uninitialized function pointer, which created a security vulnerability for kadmind.
- * Fix for MITKRB5-SA-2006-003: the GSS-API mechglue layer could fail to initialize some output pointers, causing callers to attempt to free uninitialized pointers. This caused a security vulnerability in kadmind.

Major known bugs in krb5-1.5.2 5293 crash creating db2 database in non-existent directory Attempting to create a KDB in a non-existent directory using the Berkeley DB back end may cause a crash resulting from a null pointer dereference. If a core dump occurs, this may cause a local exposure of sensitive information such a master key password. This will be fixed in an upcoming patch release. krb5-1.5.2 changes by ticket ID Listed below are the RT tickets of bugs fixed in krb5-1.5.2. Please see http://krbdev.mit.edu/rt/NoAuth/krb5-1.5/fixed-1.5.2.html for a current listing with links to the complete tickets. 3965 Autoconf 2.60 datarootdir issue 4237 windows ccache and keytab file paths without a prefix 4305 windows thread support frees thread local storage after TlsSetValue 4309 wix installer - win2k compatibility for netidmgr

4310 NSIS installer - update for Win2K NetIDMgr 4312 KFW 3.1 Beta 2 NetIDMgr Changes 4354 db2 policy database loading broken 4355 test policy dump/load in make check 4368 kdc: make_toolong_error does not initialize all fields for krb5_mk_error 4407 final commits for KFW 3.1 Beta 2 4499 Document prerequisites for make check 4500 Initialize buffer before calling res_ninit 5307 fix MITKRB5-SA-2006-002 for 1.5-branch 5308 fix MITKRB5-SA-2006-003 for 1.5-branch Major changes in 1.5.1 The only significant change in krb5-1.5.1 is to fix the security vulnerabilities described in MITKRB5-SA-2006-001, which are local privilege escalation vulnerabilities in applications running on Linux and AIX.

Listed below are the RT tickets of bugs fixed in krb5-1.5.1. Please see

krb5-1.5.1 changes by ticket ID

http://krbdev.mit.edu/rt/NoAuth/krb5-1.5/fixed-1.5.1.html

for a current listing with links to the complete tickets.

3904	fix uninitialized vars
3956	gssapi compilation errors on Windows
3971	broken configure test for dlopen
3998	Document add_entry in ktutil man page
4012	reverse test for copy_oid_set in lib/gssapi/krb5/indicate_mechs.c
4036	reject configure option for static libraries
4037	respect LDFLAGS in NetBSD build
4063	gss mech glue implementation should validate opaque pointer types
4088	gss_import_name can fail to call gssint_initialize_library()
4125	fix MITKRB5-SA-2006-001: multiple local privilege escalation
VI	ulnerabilities
4137	ksu spuriously fails when exiting shell when ksu-ing to non-root
4168	clean up mkrel patchlevel.h editing etc.

Kerberos 5 Release 1.5 includes many significant changes to the Kerberos build system, to GSS-API, and to the Kerberos KDC and administration system. These changes build up infrastructure as part of our efforts to make Kerberos more extensible and flexible. While

Major changes in 1.5

we are confident that these changes will improve Kerberos in the long run, significant code restructuring may introduce portability problems or change behavior in ways that break applications. It is always important to test a new version of critical security software like Kerberos before deploying it in your environment to confirm that the new version meets your environment's requirements. Because of the significant restructuring, it is more important than usual to perform this testing and to report problems you find.

Highlights of major changes include:

- * KDB abstraction layer, donated by Novell.
- * plug-in architecture, allowing for extension modules to be loaded at run-time.
- * multi-mechanism GSS-API implementation ("mechglue"), donated by Sun Microsystems
- * Simple and Protected GSS-API negotiation mechanism ("SPNEGO") implementation, donated by Sun Microsystems
- * Per-directory ChangeLog files have been deleted. Releases now include auto-generated revision history logs in the combined file doc/CHANGES.

```
Changes by ticket ID
Listed below are the RT tickets of bugs fixed in krb5-1.5. Please see
http://krbdev.mit.edu/rt/NoAuth/krb5-1.5/fixed-1.5.html
for a current listing with links to the complete tickets.
verify_krb_v4_tgt is not 64-bit clean
856 patch to add shared library support for BSD/OS 4
1245 source tree not 64-bit clean
1288 v4 ticket file format incompatibilities
1431 fix errno.h references for cygwin
1434 use win32 rename solution in reache for cygwin
1988 profile library fails to handle space in front of comments
2577 [Russ Allbery] Bug#250966: /usr/sbin/klogind: Authorization
    behavior not fully documented
2615 Fwd: Patch for telnet / telnetd to avoid crashes when used
    with MS kdc and PAC field
2628 Cygwin build patches
2648 [Russ Allbery] Bug#262192: libkrb53: krb_get_pw_in_tkt
    problems with AFS keys
2712 whitespace patch for src/kdc/kerberos_v4.c
```

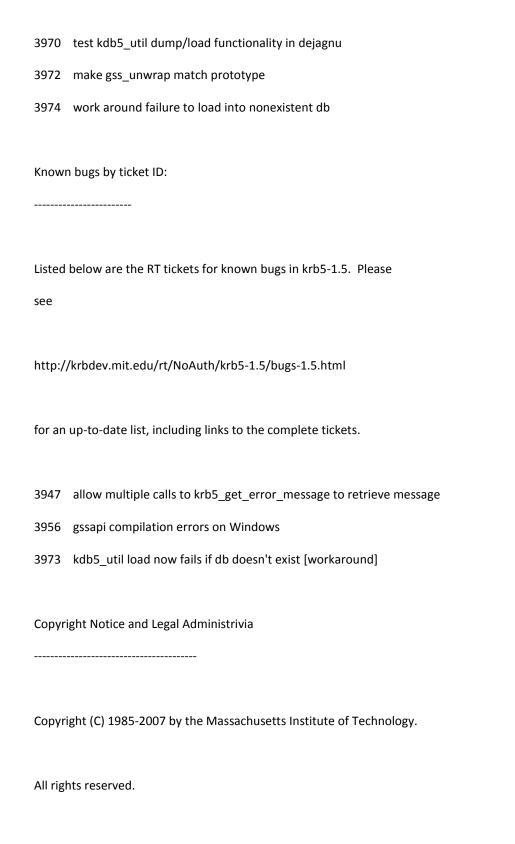
2759	fake-getaddrinfo.h incorrectly checks for gethostbyname_r errors	
2761	move getaddrinfo hacks into support lib for easier maintenance	
2763	file ccache should be held open while scanning for credentials	
2786	dead code in init_common() causes malloc(0)	
2791	hooks for recording statistics on locking behavior	
2807	Add VERSIONRC branding to krb5 support dll	
2855	Possible thread safety issue in lib/krb5/os/def_realm.c	
2856	Need a function to clone krb5_context structs for thread safe apps	
2863	windows klist won't link	
2880	fix calling convention for thread support fns	
2882	Windows 2003 SP1 ktpass.exe generate keytab files fail to load with 1.4	
2886	krb5_do_preauth could attempt to free NULL pointer	
2931	implement SPNEGO	
2932	implement multi-mech GSSAPI	
2933	plug-in architecture	
2936	supplementary error strings	
2959	profile library should check high-resolution timestamps if available	
2979	threaded test program built even with thread support disabled	
3008	Incorrect cross-references in man pages	
3010	Minor path and service man page fixes	
3011	krb5-config should never return -I/usr/include	
3013	Man pages for fakeka and krb524init	
3014	texinfo variable fixes, info dir entries	
3030	Bug report: Kinit has no suport for addresses in	
credentials. Kinit -a is not enabled.		

3065	Implement RFC 3961 PRF	
3086	[Sergio Gelato] Bug#311977: libkrb53: gss_init_sec_context	
so	ometimes fails to initialise output_token	
3088	don't always require support library when building with sun cc	
3122	fixes for AIX 5.2 select() and IPv4/IPv6 issues	
3129	shlib build problems on HP-UX 10.20 with gcc-3.4.3	
3233	kuserok needs to check for uid 99 on Mac OS X	
3252	Tru64 compilation fails after k5-int.h/krb5.h changes	
3266	Include errno.h in kdc/kerberos_v4.c	
3268	kprop should fall back on port 754 rather than failing	
3269	telnet help should connect to a host named help	
3308	kadmin.local is killed due to segmentation fault when	
рі	rincipal name argument is missing.	
3332	don't destroy uninitialized rcache mutex in error cases	
3358	krb5 doesn't build when pthread_mutexattr_setrobust_np is	
defined but not declared		
3364	plugins should be thread-safe	
3415	Windows 64-bit support	
3416	tweak kdb interface for thread safety	
3417	move/add thread support to support lib	
3423	Add support for utmps interface on HPUX 11.23	
3426	trunk builds without thread support are not working	
3434	sizeof type should be checked at compile time, not configure time	
3438	enhancement: report errno when generic I/O errors happen in kinit	
3445	args to ctype.h macros should be cast to unsigned char, not int	

3466 ioctl header portability fixes for telnet on GNU/kFreeBSD 3467 Allow GSS_C_NO_OID in krb5_gss_canon_name 3468 udp preference limit typo in krb5.conf man page 3490 getpwnam_r status checked incorrectly 3502 Cannot acquire initiator cred using gss_acquire_cred with explicit name on Windows 3512 updates to NSIS installer for KFW 3521 Add configurable Build value to File and Product versions for Windows 3549 library double-free with an empty keytab 3607 clients/ksu/setenv.c doesn't build on Solaris 3620 use strerror r 3668 Prototype for krb5_c_prf missing const 3671 shsUpdate should take an unsigned int for length 3675 unsigned/signed int warnings in krb5_context variables. initialize cc_version to 0 not NULL 3687 3688 Added CoreFoundation bundle plugin support build kadm5 headers in generate-files-mac target 3689 3690 build rpc includes in generate-files-mac target. kadmin hangs indefinitely when admin princ has escaped chars 3706 ipv4+ipv6 messages can trip up KDC replay detection 3714 fix incorrect padata memory allocation in send_tgs.c 3716 Plugin search algorithm should take lists of name and directories 3719 fix bug in flag checking in libdb2 mpool code 3724 need to export kadm5_set_use_password_server 3736 Cleanup a number of cast away from const warnings in gssapi

3739	vsnprintf not present on windows	
3746	krb5_cc_gen_new memory implementation doesn't create a new ccache	
3761	combine kdc.conf, krb5.conf data in KDC programs	
3783	install headers into include/krb5	
3790	memory leak in GSSAPI credential releasing code	
3791	memory leak in gss_krb5_set_allowable_enctypes error path	
3825	krb5int_get_plugin_dir_data() uses + instead of * in realloc	
3826	memory leaks in krb5kdc due to not freeing error messages	
3854	CCAPI krb4int_save_credentials_addr should match prototype	
3866	gldas-needed not portable enough	
3879	Update texinfo.tex	
3888	ftpd's getline conflicts with current glibc headers	
3898	Export gss_inquire_mechs_for_name for KFW	
3899	Export krb5_gss_register_acceptor_identity in KFW	
3900	update config.guess and config.sub	
3902	g_userok.c has implicit declaration of strlen	
3903	various kadm5 files need string.h	
3905	warning fixes for spnego	
3909	Plugins need to use RTLD_GROUP when available, but definitely	
not RTLD_GLOBAL		
3910	fix parallel builds for libgss	
3911	getaddrinfo code uses vars outside of storage duration	
3918	fix warnings for lib/gssapi/mechglue/g_initialize.c	
3920	cease export of krb5_gss_*	
3921	remove unimplemented/unused mechglue functions	

3922 mkrel should update patchlevel.h prior to reconf implement RFC4120 behavior on TCP requests with high bit set in length 3924 the krb5_get_server_rcache routine frees already freed memory in error path krb5_get_profile should reflect profile in the supplied context 3927 fix signedness warnings in spnego mech.c 3928 fix typo in MS_BUG_TEST case in krb5_gss_glue.c 3940 Disable MSLSA: ccache in WOW64 on pre-Vista Beta 2 systems 3942 make gssint_get_mechanism match prototype 3944 write svn log output when building release 3945 mkrel should only generate doc/CHANGES for checkouts 3948 Windows: fix krb5.h generation 3949 fix plugin.c to compile on Windows 3950 autoconf 2.60 compatibility 3951 remove unused dlopen code in lib/gssapi/mechglue/g_initialize.c 3952 fix calling convention for krb5 error-message routines, document usage of krb5_get_error_message 3953 t std conf references private function due to explicit linking of init_os_ctx.o 3954 remove mechglue gss_config's gssint_userok and pname_to_uid 3957 remove unused lib/gssapi/mechglue/g_utils.c 3959 re-order inclusions in spnego_mech.c to avoid breaking system headers 3962 krb5_get_server_rcache double free 3964 "kdb5 util load" to existing db doesn't work, needed for kpropd 3968 fix memory leak in mechglue/g init sec ctx.c



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--- The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in src/lib/gssapi, including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c

lib/gssapi/mechglue/g_canon_name.c

lib/gssapi/mechglue/g_compare_name.c

lib/gssapi/mechglue/g_context_time.c

lib/gssapi/mechglue/g_delete_sec_context.c

lib/gssapi/mechglue/g_dsp_name.c

lib/gssapi/mechglue/g_dsp_status.c

lib/gssapi/mechglue/g_dup_name.c

lib/gssapi/mechglue/g_exp_sec_context.c

lib/gssapi/mechglue/g_export_name.c

lib/gssapi/mechglue/g_glue.c

lib/gssapi/mechglue/g_imp_name.c

lib/gssapi/mechglue/g_imp_sec_context.c

lib/gssapi/mechglue/g_init_sec_context.c

lib/gssapi/mechglue/g_initialize.c

lib/gssapi/mechglue/g_inq_context.c

lib/gssapi/mechglue/g_inq_cred.c

lib/gssapi/mechglue/g_inq_names.c

lib/gssapi/mechglue/g_process_context.c

lib/gssapi/mechglue/g_rel_buffer.c

lib/gssapi/mechglue/g_rel_cred.c

lib/gssapi/mechglue/g_rel_name.c

lib/gssapi/mechglue/g_rel_oid_set.c

lib/gssapi/mechglue/g_seal.c

lib/gssapi/mechglue/g_sign.c

lib/gssapi/mechglue/g_store_cred.c

lib/gssapi/mechglue/g_unseal.c

lib/gssapi/mechglue/g_verify.c

lib/gssapi/mechglue/mglueP.h

lib/gssapi/mechglue/oid_ops.c

lib/gssapi/spnego/gssapiP_spnego.h

lib/gssapi/spnego/spnego_mech.c

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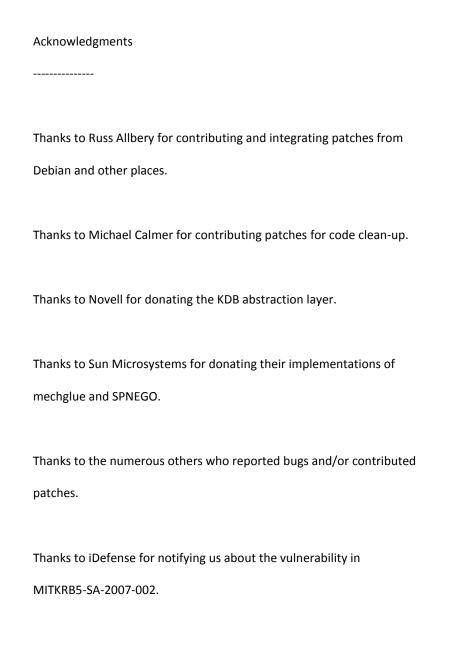
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nss_ldap 2.62

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