

CA Access Control 高级版

版本说明

12.6.01



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第三方通知

包含 AIX(TM)、Java(TM) 2 技术版、1.4 版模块的 IBM(R) 32 位运行时环境

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示例脚本和示例 SDK 代码

CA Access Control 产品随附的示例脚本和示例 SDK 代码均“按原样”提供，仅供参考之用。在特定环境下，可能需要对它们进行调整，而且在生产系统中部署它们之前，未经事先测试和验证不应将其用于生产。

CA Technologies 不向这些示例提供支持，而且对于这些脚本可能会引起的任何错误概不负责。

CA Technologies 产品引用

本文档引用以下 CA Technologies 产品：

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

文档约定

CA Access Control 文档使用以下约定：

格式	含义
等宽字体	代码或程序输出
<i>斜体</i>	重点或新术语
粗体	必须完全按照显示内容键入的文本
正斜杠 (/)	用于描述 UNIX 和 Windows 路径的独立于平台的目录分隔符

文档在解释命令语法和用户输入（以等宽字体显示）时还会使用以下特殊约定：

格式	含义
<i>斜体</i>	您必须提供的信息
用方括号括起来 ([])	可选运算符

格式	含义
用大括号括起来 ({})	强制运算符集
用管道符 () 分隔的选项。	分隔可选运算符（选择一项）。 例如：下面的示例既可以表示用户名，也可以表示组名： <code>{username groupname}</code>
...	指明前面的项或项组可以重复
<u>下划线</u>	默认值
前面带空格的行尾反斜杠 (\)	有时，在本指南中，一行无法容纳一个命令。在这些情况下，行结尾处的空格加上反斜杠 (\) 就表示该命令延续到下一行。 注意： 请勿复制反斜杠字符，并且请省略换行符。这些不是实际命令语法的一部分。

示例：命令表示法约定

下面的代码说明了在本指南中使用命令约定的方式：

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

在该示例中：

- 命令名称 (**ruler**) 以常规等宽字体显示，必须按照显示内容键入。
- *className* 选项以斜体显示，因为它是一个类名（例如 **USER**）的占位符。
- 即使不带有方括号中的第二部分，您也可以运行该命令，方括号表示该运算符是可选的。
- 使用可选参数 (**props**) 时，可以选择关键字 *all*，也可以指定一个或多个属性名（以逗号分隔）。

文件位置约定

CA Access Control 文档使用以下文件位置约定：

- *ACInstallDir*—默认 CA Access Control 安装目录。
 - Windows—C:\Program Files\CA\AccessControl\
 - UNIX—/opt/CA/AccessControl/
- *ACSharedDir*—CA Access Control for UNIX 使用的默认目录。
 - UNIX—/opt/CA/AccessControlShared

- *ACServerInstallDir*—默认 CA Access Control 企业管理 安装目录。
 - /opt/CA/AccessControlServer
- *DistServerInstallDir*—默认分发服务器安装目录。
 - /opt/CA/DistributionServer
- *JBoss_HOME*—默认 JBoss 安装目录。
 - /opt/jboss-4.2.3.GA

联系技术支持

要获取在线技术帮助以及办公地址、主要服务时间和电话号码的完整列表，请联系技术支持：<http://www.ca.com/worldwide>。

文档更改

从本文档的最新版本以来对该文档进行了以下更新：

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第 1 章： 欢迎

欢迎使用 CA Access Control 高级版 r12.6.01。本指南说明新的增强、对现有功能的更改、支持的操作系统、系统要求、文档信息、安装和一般注意事项、公布的解决方案以及 CA Access Control 高级版的已知问题。

CA Access Control 高级版 提供与 CA Access Control 相同的功能和组件。此外，它还提供了企业管理和报告功能，以及高级策略管理功能。

为了简化术语，在本指南中我们将此产品称为 CA Access Control。

第 2 章： CA Access Control 版本

CA Access Control 有两种版本，功能因产品版本而异：

CA Access Control

包含可为开放式系统提供全面的安全解决方案的核心功能。

CA Access Control 高级版

提供了与 CA Access Control 相同的功能和组件。此外，它还提供了企业管理和报告功能、高级策略管理功能以及用于收集和管理 CA Access Control 审核日志的 CA Enterprise Log Manager。

CA Access Control 高级版 包含特权用户密码管理 (PUPM)，可帮助管理和审核由特权帐户执行的任务。通过 UNIX 身份验证代理 (UNAB) 功能，您可以在 Active Directory 中管理 UNIX 用户，并将用户合并到一个存储库中。

CA Access Control 高级版 安装介质

可从以下光盘上获取 CA Access Control 高级版 组件。

注意： CA Access Control 高级版 安装介质不同于 CA Access Control 安装介质。

以下光盘包含端点组件：

- 适用于 Windows 的 CA Access Control 端点组件

包含端点组件的 CA Access Control for Windows 安装文件。这些文件包括独立 Windows 计算机所需的核心 CA Access Control 功能、扩展核心功能（例如策略模型支持）所需的其他可执行文件和库、运行时 SDK 文件和库及 API 示例、大型机密码同步、堆栈溢出保护 (STOP) 以及 PUPM 代理。

- 适用于 UNIX 的 CA Access Control 端点组件

包含端点组件的 CA Access Control for UNIX 安装文件。这些文件包括独立 UNIX 计算机所需的核心 CA Access Control 功能、扩展核心功能（例如策略模型支持）所需的其他二进制文件和库、运行时 SDK 文件和库及 API 示例、大型机密码同步、堆栈溢出保护 (STOP) 以及 PUPM 代理。

此光盘还包含 UNAB 安装文件。

以下光盘包含企业管理服务器和适用于 Windows 的报告门户组件：

- 适用于 Windows 的 CA Access Control 高级版 服务器组件

包含 CA Access Control 端点管理、CA Access Control 分发服务器和 CA Access Control 企业管理 的安装文件。

CA Access Control 企业管理 包括 CA Access Control 端点管理、适用于 Windows 的 CA Access Control 端点组件、CA Access Control 分发服务器组件以及部署映射服务器 (DMS)。

此光盘还包括要导入 CA Business Intelligence 的报告数据包。

- 适用于 Windows 的 CA Access Control 第三方组件

包含用于在 Windows 上安装先决条件第三方软件 (JDK 和 JBoss) 的先决条件安装程序。需要先安装这些软件应用程序，然后才能安装 CA Access Control 高级版 服务器组件。

以下光盘包含适用于 Linux 的企业管理服务器和报告门户组件：

- 适用于 Linux 的 CA Access Control 高级版 服务器组件

包含 CA Access Control 端点管理、CA Access Control 分发服务器和 CA Access Control 企业管理 的安装文件。

CA Access Control 企业管理 包括 CA Access Control 端点管理、适用于 Linux 的 CA Access Control 端点组件、CA Access Control 分发服务器组件以及部署映射服务器 (DMS)。

此光盘还包括要导入 CA Business Intelligence 的报告数据包。

- 适用于 Linux 的 CA Access Control 第三方组件
包含 Linux 的先决条件第三方软件（JDK 和 JBoss）。需要先安装这些软件应用程序，然后才能安装 CA Access Control 高级版 服务器组件。

CA Access Control 安装介质

可从以下光盘上获取 CA Access Control 组件。

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以下光盘包含端点组件：

- 适用于 Windows 的 CA Access Control 端点组件
包含端点组件的 CA Access Control for Windows 安装文件。这些组件包括独立 Windows 计算机所需的核心 CA Access Control 功能、扩展核心功能（例如策略模型支持）所需的其他可执行文件和库、运行时 SDK 文件和库及 API 示例、大型机密码同步以及堆栈溢出保护 (STOP)。
- 适用于 UNIX 的 CA Access Control 端点组件
包含端点组件的 CA Access Control for UNIX 安装文件。这些组件包括独立 UNIX 计算机所需的核心 CA Access Control 功能、扩展核心功能（例如策略模型支持）所需的其他二进制文件和脚本、API 库和示例、大型机密码同步以及堆栈溢出保护 (STOP)。
此光盘还包含用于 CA Access Control 高级版的 UNAB 安装文件。

以下光盘包含适用于 Windows 的服务器组件：

- 适用于 Windows 的 CA Access Control 服务器组件
包含适用于 Windows 的 CA Access Control 端点管理。
- 适用于 Windows 的 CA Access Control 第三方组件
包含用于在 Windows 上安装先决条件第三方软件（JDK 和 JBoss）的安装程序。必须先安装这些软件应用程序，然后才能安装 CA Access Control 端点管理。

以下光盘包含适用于 Linux 的服务器组件：

- 适用于 Linux 的 CA Access Control 服务器组件
包含适用于 Linux 的 CA Access Control 端点管理。
- 适用于 Linux 的 CA Access Control 第三方组件
包含 Linux 的先决条件第三方软件（JDK 和 JBoss）。必须先安装这些软件应用程序，然后才能安装 CA Access Control 端点管理。

补充的 CA User Activity Reporting Module 许可

作为 CA Access Control 高级版的所有者，您还有权使用 CA User Activity Reporting Module 产品，不过仅限于用它来收集、管理和报告 CA Access Control 审核日志。首先，必须获得“CA User Activity Reporting Module Server for CA Access Control”的许可（代码为 ELMSAC99100/ELMSAC991），该许可是以象征性的价格提供给 CA Access Control 高级版客户的。

要在北美获得 CA User Activity Reporting Module 许可，请联系您当地的客户代表。如果您位于北美以外的地区，请致电您当地的客户代表或当地的 CA Technologies 办事处。您可以通过 CA 在线支持网站（网址为 <http://ca.com/support>，位于您的 CA Access Control 高级版下载链接下）上的下载中心在线下载 CA User Activity Reporting Module。

所有版本的单个文档集

我们对两个版本提供同样的文档。因此，某些指南的某些部分仅适用于 CA Access Control 高级版。以下内容说明文档如何适用于 CA Access Control：

- 版本说明
本指南中的一些信息仅适用于 CA Access Control 高级版功能。
- 实施指南
本指南中的一些信息仅适用于 CA Access Control 高级版功能。
- 企业管理指南
整个指南仅适用于 CA Access Control 高级版。
- Upgrade Guide（升级指南）
本指南中的一些信息仅适用于 CA Access Control 高级版功能。

- **实施指南**
整个指南适用于 CA Access Control 高级版。
 - **端点管理指南：用于 Windows**
整个指南适用于 CA Access Control。
 - **端点管理指南：用于 UNIX**
整个指南适用于 CA Access Control。
 - **参考指南**
本指南中的一些信息仅适用于 CA Access Control 高级版 功能。
 - **selang 参考指南**
本指南中的一些信息仅适用于 CA Access Control 高级版 功能。
 - **故障排除指南**
本指南中的一些信息仅适用于 CA Access Control 高级版 功能。
- 为了简化术语，在本文档中我们将此产品称为 CA Access Control。

第 3 章： 新增功能与经过更改的功能

此部分包含以下主题：

[CA Access Control 企业管理 和 CA Access Control 增强功能](#) (p. 21)

[UNAB 增强功能](#) (p. 22)

[PUPM 增强功能](#) (p. 23)

[文档增强功能](#) (p. 25)

[此版本中已解决的问题](#) (p. 25)

CA Access Control 企业管理 和 CA Access Control 增强功能

以下为自最新版本以来所做的 CA Access Control 企业管理 和 CA Access Control 增强和修正：

■ 负载均衡企业管理服务器

负载均衡企业管理服务器已经被添加到 CA Access Control，管理发生重大事务的环境。通过负载均衡企业管理服务器，CA Access Control 客户可以使用公共用户和策略存储在企业管理服务器中分发工作负荷。

■ LDAP 网络组支持

增加了对 LDAP 网络组的支持，以便 CA Access Control 策略允许使用网络组进行策略评估。

注意：用户网络组映射到用户 XGROUPS。CA Access Control 不连接到用户目录，相反，CA Access Control 使用本地操作系统 LDAP 来检索网络组信息。

■ 对消息队列进行策略管理

可选 JMS (Java 消息传递服务) 协议现已可用，可针对大型 CA Access Control 端点环境实现更好的策略分发。

■ 内存监控

增加了内存监控功能，监控后台进程内存消耗情况。使用命令 `secons -i` 来显示当前内存使用情况。

■ 崩溃防护

在针对 Windows 的 CA Access Control 上增加了一个进程，在系统故障发生之后收集支持相关文件。

UNAB 增强功能

以下为自最新版本以来所做的 UNAB 增强和修正：

- **单向信任**

添加了单向信任支持，以便用户可以仅从已建立单向信任的域登录。

- **代理进程监控**

添加了内存大小和打开文件数监控功能。您可以通过运行命令 `uxconsole -status -detail` 来查看当前内存消耗情况。

- **代理自行修复选项**

UNAB 代理自行修复现已可用。自行修复可控制 UNAB 代理进程和重新启动、诊断进程内存、打开的文件数、Active Directory 连接以及过程参数。后台进程会自动启动“自动重新启动”，以还原常规代理功能。

- **查看部署到端点的企业策略**

通过运行命令 `uxconsole -manage -show -policy`，可查看部署到端点的企业策略。

- **限制部分用户使用 Active Directory 密码**

添加了限制部分用户使用 Active Directory 密码登录的功能。

- **使用 uxconsole 更改 Active Directory 密码**

现在您可以使用命令 `uxconsole -krb -passwd`，更改 Active Directory 用户密码。

- **映射 UNIX 用户**

您可以使用命令 `uxconsole -map`，轻松映射 UNIX 用户。使用该命令，您可以添加、删除、显示用户映射，还可将用户定义为本地异常。

- **灵活的调试功能**

调试是灵活的，因为 UNAB PAM 和 NSS 调试数据是在 `syslog` 和 UNAB 调试文件中收集的。通过运行命令 `uxconsole -debug`，可对 UNAB 代理进行调试。

PUPM 增强功能

以下为自最新版本以来所做的 PUPM 增强和修正：

■ 管理特权帐户的打开的会话

PUPM 已增强，可在特权帐户已登录（打开的会话）目标端点时，拒绝签出或签入该帐户。PUPM 管理员可为每个 PUPM 帐户配置打开的会话。下列端点类型支持打开的会话功能：

- Windows Agentless
- SSH 设备
- Oracle Server
- Microsoft SQL
- Sybase Server
- 网络设备

■ RACF 连接器增强功能

RACF 连接器已增强，可通过 JCS 运行。RACF 连接器通过 SSL 受支持。

创建端点的管理员现在需要权限来修改用户并使用 NOEXPIRED 操作符（具有 PASSWORD 或 PHRASE）。此类用户没有 SPECIAL、OPERATIONS、AUDITOR 或 PROTECTED 属性。

■ 支持 ACF2 端点

PUPM 已增强，可支持 ACF2 端点类型。

■ Windows Agentless PUPM 连接器

Windows Agentless PUPM 连接器得到增强，可以更好地管理 Windows 端点。增强的 Windows Agentless PUPM 连接器具有以下功能：

- 搜索并筛选 Active Directory 帐户
- 稳妥处理服务帐户

注意：您仅可在 Windows 分发服务器上部署 Windows Agentless PUPM 连接器。安装其他 Windows 分发服务器，或使用已有连接器（如果已安装 UNIX 分发服务器）。

■ 针对 PUPM 连接器的 CA Access Control

针对 PUPM 连接器的 CA Access Control 已增强，具有以下功能：

- 连接器不需要用户名和密码。
- 配置过程已自动化。
- 连接器受操作系统更改和要求的影响更少。

- 连接器可处理服务帐户。

- **PUPM 网络设备端点**

PUPM 现在具有网络设备端点管理网络设备。

注意：当前 PUPM 网络设备连接器仅认可与 Cisco 2600 网络设备一起使用。

- **特权帐户请求**

特权帐户请求功能已增强，可允许 PUPM 用户请求访问其他 PUPM 用户。

- **多个帐户请求和批准**

特权帐户请求功能已增强，可允许一次发出多个请求。同样，PUPM 批准人也可一次批准多个请求。

- **紧急情况功能增强**

紧急情况功能已增强，可阻止访问正在进行紧急情况应急处理的独占帐户。

- **登录应用程序增强功能**

PUPM 现已在 CA Access Control 企业管理 中预填充“登录应用程序”屏幕。预填充了下列登录应用程序类型：

- ORACLE_10G_WEB
- ORACLE_10XE_WEB
- ORACLE_11G_WEB
- PUTTY
- PUTTY_TELNET
- RDP
- RDP_AD

- **在创建端点时禁用高级登录**

已添加一个选项，可禁用指定端点的“高级登录”选项。

文档增强功能

以下为自最新版本以来所做的文档增强：

- **端到端总目录**

添加了一个已增强且扩展的 CA Access Control 总目录，以便可以轻松访问文档和参考资料。使用端到端总目录，可了解最新方案、知识库文章、白皮书、视频、演示和更多信息。

- **集成指南**

添加了一个新指南，说明如何将 CA Access Control 与 CA 和第三方产品进行集成。

- **升级指南**

添加了一个新指南，帮您从 CA Access Control 和 CA Access Control 企业管理的先前版本进行升级。

此版本中已解决的问题

此版本中包含的修复记录在版本修复列表中。您可以从 CA 支持上的 [CA Access Control 最新维护版本](#) 页面中访问此修复列表。

第 4 章： 系统要求

此部分包含以下主题：

- [支持的操作系统](#) (p. 27)
- [企业管理服务器要求](#) (p. 27)
- [企业管理服务器集成组件](#) (p. 28)
- [CA Access Control 端点管理 要求](#) (p. 29)
- [企业报告要求](#) (p. 29)
- [分发服务器要求](#) (p. 30)
- [Windows 端点要求](#) (p. 30)
- [UNIX 端点要求](#) (p. 30)
- [策略模型数据库要求](#) (p. 31)
- [UNAB 要求](#) (p. 31)

支持的操作系统

有关支持的操作系统的列表，请参阅“CA Access Control 兼容性列表”（可从 [CA 支持](#) 的 CA Access Control 产品页上获取）。

企业管理服务器要求

企业服务器的最低要求如下：

- **处理器**—(Windows) Pentium PC, 2.66 GHz; (UNIX) SPARC 工作站, 440MHz
- **内存**—2 GB RAM
- **可用磁盘空间**—安装目录中为 2 GB; %TEMP% (Windows) 或 /tmp (UNIX) 中为 3 GB; 交换文件为 3 GB; JBoss 目录中为 1.5 GB

此外，还需要在企业服务器中安装以下软件：

- **JDK**—Java 开发工具包 (JDK) 1.6.30 或更高版本
- **应用程序服务器**—JBoss Application Server 4.2.3.GA 版
- **中央数据库 (RDBMS)**—Oracle Database 10g、Oracle Database 11g、Microsoft SQL Server 2005 或 Microsoft SQL Server 2008

注意：无需将此中央数据库安装在同一计算机上。有关 RDBMS 系统要求的信息，请参阅产品文档。

在最终用户计算机上，您需要的最小屏幕分辨率为 1024 x 768，并需要以下设置作为 Web 浏览器：

- **Windows**—Microsoft Internet Explorer 6.x/7.x/8.x 或 Mozilla Firefox 2.x/3.0/3.5
- **Linux**—Mozilla Firefox 2.x/3.0/3.5

企业管理服务器集成组件

企业管理服务器支持与以下产品集成：

- **Active Directory**—（可选）企业用户存储。
注意：您不需要在安装企业管理服务器的同一计算机上安装用户存储。
- **CA Directory**—（可选）CA 专有用户存储。
- **Sun ONE**—（可选）企业用户存储。
注意：您不需要在安装企业管理服务器的同一计算机上安装用户存储。
- **报告门户**—CA Business Intelligence。
注意：您不需要在安装企业管理服务器的同一计算机上安装此软件。有关报告门户最低系统要求的信息，请参阅《*CA Business Intelligence 安装指南*》。
注意：有关 CA Business Intelligence 的详细信息，请参阅 [CA Technologies 支持](#)提供的《*CA Business Intelligence 安装指南*》。
- **CA Enterprise Log Manager**—r12.0
注意：请不要在安装企业管理服务器的同一计算机上安装此软件。有关 CA Enterprise Log Manager 系统要求的信息，请参阅《*CA Enterprise Log Manager 版本说明*》。
- **CA Service Desk**—r12.1
注意：您不需要在安装企业管理服务器的同一计算机上安装此软件。有关 CA Service Desk 系统要求的信息，请参阅《*CA Service Desk 版本说明*》。

CA Access Control 端点管理 要求

CA Access Control 端点管理 计算机的最低要求如下：

- **处理器**—(Windows) Pentium PC, 2.66 GHz; (UNIX) SPARC 工作站, 440 MHz
- **内存**—2 GB RAM
- **可用磁盘空间**—安装目录中为 2 GB; %TEMP% (Windows) 或 /tmp (UNIX) 中为 3 GB

此外，还需要在 CA Access Control 端点管理 计算机中安装以下软件：

- **JDK**—Java 开发工具包 (JDK) 1.6.30 或更高版本
- **应用程序服务器**—JBoss Application Server 4.2.3.GA 版
- **CA Access Control**—最新版本的端点安装

注意：您安装的 CA Access Control 端点的版本必须与计划安装的 CA Access Control 端点管理 的版本相同。

在最终用户计算机上，您需要的最小屏幕分辨率为 1024 x 768，并需要以下浏览器作为 Web 浏览器：

- **Windows**—Microsoft Internet Explorer 6.x/7.x/8.x 或 Mozilla Firefox 2.x/3.0/3.5
- **Linux**—Mozilla Firefox 2.x/3.0/3.5

企业报告要求

如果使用 Oracle Database 10g 或 Oracle Database 11g 作为中央数据库 (RDBMS)，请在安装 CA Access Control 企业管理 之前执行以下操作：

- 确定 Oracle 主机与 CA Business Intelligence 主机可以通讯。
- 在 CA Business Intelligence 主机上安装 Oracle 客户端软件。
- 确定 CA Business Intelligence 主机上的 Oracle TNS 定义指向中央数据库。

如果使用 Microsoft SQL Server 2005 或 Microsoft SQL Server 2008 作为中央数据库 (RDBMS)，请在安装报告服务器之前执行以下操作：

- 确定 MS SQL 主机与 CA Business Intelligence 主机可以通讯。

重要说明！ 如果您使用 Microsoft SQL Server 作为报告数据库，请在支持的 Windows 操作系统上安装报告门户。

分发服务器要求

分发服务器计算机的最低要求如下：

- **处理器**—Pentium PC, 266 MHz
- **内存**—2 GB RAM
- **可用磁盘空间**—安装目录中为 2 GB; %TEMP% (Windows) 或 /tmp (UNIX) 中为 1 GB

此外，分发服务器计算机必须安装有以下软件：

- **JRE**—Java 运行时环境 (JRE) 1.5.0_18 或更高版本

Windows 端点要求

CA Access Control Windows 端点的最低要求如下：

- **处理器**—基于 Intel 的 Pentium 4 PC, 1.6 GHz
- **内存**—128 MB RAM
- **可用磁盘空间**—100 MB

此外，CA Access Control 数据库还需要磁盘空间来存储记录，这些记录用于描述用户和用户组、受保护文件和其他资源以及允许对资源进行受控访问的权限等。例如：一个可供一千名用户使用、包含一千个文件和五百条访问规则的数据库将占用大约 2 MB 的磁盘空间。

UNIX 端点要求

CA Access Control UNIX 端点的最低要求如下：

- **内存**—1 GB RAM（建议使用 2 GB）
- **可用磁盘空间**—250 MB（常规安装需 300 MB）

此外，CA Access Control 数据库也需要磁盘空间，该数据库是一个存储库，用于存储描述用户和用户组、受保护文件和其他资源的记录，以及允许对资源进行受控访问的授权。例如：一个可供一千名用户使用、包含一千个文件和五百条访问规则的数据库将占用大约 2 MB 的磁盘空间。

策略模型数据库要求

除端点空间要求外，您还需要为计划在主机上创建的每个策略模型提供额外的磁盘空间。每个“策略模型”包含一个数据库，因此需要以 CA Access Control 数据库的相同操作方式来计算空间需求。

如果您要进行升级且所有策略模型数据库 (PMDB) 已准备就绪，请在升级前记录每个 PMDB 在 `ACInstallDir/policy_model_path/pmdb_name` 目录中使用的空间。使用以下计算方法估算出升级每个 PMDB 所需要的额外磁盘空间：

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

UNAB 要求

UNAB 的最低要求如下：

- 内存—128 MB RAM (建议使用 256 MB)
- 可用磁盘空间—100 MB

此外，您还必须配置 Active Directory 服务器，具体取决于安装类型：

- Windows Server 2000 SP4 (如果执行部分集成安装)
- Windows Server 2003 SP2 R2 和 Windows Server 2008 R2 (如果执行完全集成安装)

此外，请在安装 UNAB 之前完成以下操作：

- 确定 UNIX 和 Active Directory 计算机之间的时钟保持同步。
- 同步分发服务器和 UNAB 计算机之间的时钟。
- 从 UNIX 服务器和 Active Directory 服务器中验证 UNIX 端点和域控制器的正向和反向名称解析。
- (可选) 检查 UNAB 系统遵从性。

此项检查会在您安装 UNAB 时自动运行。

- (可选) 如果要实施完全集成模式，请安装允许您查看和修改 Active Directory 用户和组的 UNIX 属性的工具。

注意：有关这些先决条件任务的详细信息，请参阅《实施指南》。

第 5 章： 文档

此部分包含以下主题：

[指南](#) (p. 33)

指南

CA Access Control 高级版 r12.6.01 的指南如下：

- 版本说明
- 实施指南
- 端点管理指南：用于 Windows
- 端点管理指南：用于 UNIX
- 企业管理指南
- 集成指南
- 升级指南
- 参考指南
- selang 参考指南
- 故障排除指南

注意：要查看 PDF 文件，您必须下载并安装可移植文档格式 (PDF) 阅读器。CA Access Control 文档需要 Adobe Reader 7.0.7 或更高版本。如果您的计算机中尚未安装 Adobe Reader，可从 Adobe 网站下载。

除 PDF 指南之外，还提供了 HTML 格式的 CA Access Control 指南，并且可从各种基于 Web 的界面访问联机帮助。

第 6 章： FIPS 遵从性

此部分包含以下主题：

[FIPS 操作模式](#) (p. 35)

[仅 FIPS 模式所不支持的操作系统](#) (p. 35)

[FIPS 加密存储库](#) (p. 35)

[使用的 FIPS 算法](#) (p. 36)

[密钥和证书的存储](#) (p. 36)

[受影响的功能 \(UNIX\)](#) (p. 36)

[受影响的功能 \(Windows\)](#) (p. 38)

FIPS 操作模式

CA Access Control 具有两种 FIPS 操作模式：仅 FIPS 模式和常规模式。在仅 FIPS 模式中，CA Access Control 仅使用那些遵从 FIPS 140-2 的加密功能。这意味着某些 CA Access Control 功能在仅 FIPS 模式中是禁用的。在常规模式中，CA Access Control 使用 FIPS 140-2 加密功能和非 FIPS 遵从功能。

注意：要在仅 FIPS 模式和常规模式之间切换，请使用加密区中的 *fips_only* 配置设置。

仅 FIPS 模式所不支持的操作系统

在 CA Access Control 支持的以下操作系统体系结构中不支持仅 FIPS 模式：

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

FIPS 加密存储库

在仅 FIPS 模式中，CA Access Control 使用 CAPKI 加密存储库。在 UNIX 系统中，CA Access Control 使用 OS 加密存储库进行密码加密（“crypt”方法）。在常规模式中，除了非 FIPS 加密存储库外，CA Access Control 还使用 CAPKI 4.1.2 加密存储库。

使用的 FIPS 算法

CA Access Control 组件使用以下加密算法。不同的组件使用不同的算法。

- 在仅 FIPS 模式中：
 - SSL (TLS 1.0) — 客户端/服务器通讯
 - CBC 模式中的 AES — PMD 更新文件 (Windows) 的加密、双向密码历史记录 (Windows)
 - SHA-1 — 单向密码加密 (Windows)、受托程序、策略签名 (高级策略管理)
- 在常规模式中：
 - CA Access Control r8 SP1 加密存储库 (DES、Triple DES、AES、MD5 等)
 - SSL (SSL V2、SSL V3 和 TLS 1.0) — 客户端/服务器通讯
 - SHA-1 (通过 CAPKI) — 用于受托程序的签名、策略的签名
 - AES (通过 CAPPKI) — 用于在处理双向密码历史记录时进行密码验证

密钥和证书的存储

CA Access Control 按如下方式存储密钥和证书。

- 对称密钥按 eTrust Access Control r8 SP1 中的方式进行存储。
- 证书 (主题证书、私钥和根证书) 存储在文件系统中, 由 CA Access Control 进行保护。

注意: CA Access Control 通过使用 CA Access Control 对称密钥的 AES 对称加密 (通过 CAPKI 存储库) 来加密私钥。

受影响的功能 (UNIX)

FIPS 操作模式可能会影响以下 CA Access Control UNIX 功能:

功能	非 FIPS 模式	FIPS 模式
PMD 更新文件加密	默认对称密钥加密 (双向)	已禁用
受托程序	CAPKI SHA-1 和 MD5	仅限 CAPKI SHA-1
双向密码加密	默认对称密钥加密	已禁用

功能	非 FIPS 模式	FIPS 模式
单向密码加密	操作系统的 crypt/bigcrypt 方法	操作系统的 crypt/bigcrypt 方法
PMD TNG 命令	默认对称密钥加密	已禁用
CA Access Control TNG 后台进程	默认对称密钥加密	已禁用
LDAP 密码加密使用 (sebuildla -u -n)	默认对称密钥加密	已禁用
LDAP 密码加密生成 (seldapcred)	默认对称密钥加密	已禁用
TCP 通讯	默认的对称密钥加密 (双向)或通过 SSL V2、SSL V3 或 TLS V1 的 CAPKI 套接字	通过 TLS V1 的 CAPKI 套接字
seversion 实用程序	CAPKI SHA-1	CAPKI SHA-1
受托程序 (watchdog 和 seretrust)	CAPKI SHA-1	CAPKI SHA-1
高级策略管理策略分发	CAPKI SHA-1 签名、向后兼容、CA Access Control 内部 SHA-1 签名	仅限 CAPKI SHA-1 签名
selogrd 加密	默认的对称密钥加密和 MD5	已禁用
sechkey 密钥更改	默认对称密钥加密	已禁用
iRecorder 日志文件签名	MD5 加密	已禁用
报告代理	已启用	已禁用
PUPM 代理	已启用	已禁用
DMS	已启用	UNAB 端点管理已禁用

注意：如果某个功能因 FIPS 操作模式而被禁用，则相关程序会输出错误消息并退出，或者在发生非交互式进程的情况下将错误消息写入系统日志。例如：报告代理或 PUPM 代理。

受影响的功能 (Windows)

FIPS 操作模式可能对以下 CA Access Control Windows 功能产生影响：

功能	非 FIPS 模式	FIPS 模式
PMD 更新文件加密	默认对称密钥加密（双向）	CAPKI AES 对称密钥加密
密码历史记录（非双向）	另存为 CAPKI SHA-1。通过 CAPKI SHA-1 进行密码验证而加密失败	另存为 CAPKI SHA-1。仅通过 CAPKI SHA-1 进行密码验证
密码历史记录（双向）	默认对称密钥加密。通过默认对称密钥加密进行密码验证	CAPKI AES 对称密钥加密。仅通过 CAPKI AES 进行密码验证。
sechkey 密钥更改、密码历史记录	默认对称密钥加密对密码历史记录进行解密和加密	CAPKI AES 对称密钥加密对密码历史记录进行解密和加密
sechkey 密钥更改、策略模型	默认对称密钥加密对策略模型更新文件进行解密和加密	CAPKI AES 对称密钥加密对策略模型更新文件进行解密和加密
受托程序	CAPKI SHA-1 和 MD5	仅限 CAPKI SHA-1
大型机密码同步	已启用	已禁用
iRecorder	已启用	已禁用
TNG 集成	已启用	已禁用
高级策略管理策略分发	CAPKI SHA-1 签名、向后兼容、CA Access Control 内部 SHA-1 签名	仅限 CAPKI SHA-1 签名
报告代理	已启用	已禁用
PUPM 代理	已启用	已禁用
DMS	已启用	UNAB 端点管理已禁用

注意：如果某个功能因 FIPS 操作模式而被禁用，则相关程序会输出错误消息并退出，或者在发生非交互式进程的情况下将错误消息写入系统日志。例如：报告代理或 PUPM 代理。

您还应该考虑以下方面：

- 从非 FIPS 移至 FIPS 时，策略模型将无法读取旧命令。
- 从 FIPS 移至非 FIPS 时，策略模型将可以读取旧命令。
- 对于非双向密码历史记录，当不在 FIPS 模式中使用 crypt 时，则不会产生影响。crypt 仅适用于向后兼容。
- 对于双向密码历史，从非 FIPS 移动到 FIPS 时，CA Access Control 将无法解密旧密码。

第 7 章：功能支持限制

此部分包含以下主题：

[IPv6 支持](#) (p. 41)

[Windows 端点限制](#) (p. 41)

[UNIX 端点限制](#) (p. 44)

[UNAB 限制](#) (p. 45)

[PUPM 限制](#) (p. 46)

IPv6 支持

CA Access Control 可在单纯 IPv4 环境、单纯 IPv6 环境或 IPv4 和 IPv6 的混合环境中运行。

注意： (UNIX) selogrd 和 selogrcd 在仅 IPv6 环境中无法正常运行。

CA Access Control 当前不支持 IPv6 网络上的网络访问控制。这会对 HOST、CONNECT 和 TCP 类产生影响。

您可以将 IP 地址以 IPv6 格式指定给 CA Access Control，但 HOSTNET 类记录的掩码和匹配功能需要使用 IPv4 格式的地址。

Windows 端点限制

本节介绍了 Windows 端点的功能支持限制。

x64 功能支持限制

以下是 Windows 2003 x64 上的已知限制：

- Unicenter TNG 迁移和集成
- 大型机密码同步
- 模拟截获（即类 SURROGATE 功能）（如果将 SurrogateInterceptionMode 设置为 1）

重要说明！ 默认情况下，x64、IA64 和 x86 平台通过 RunAs 插件支持模拟截获（SurrogateInterceptionMode 设置为 0）。

注意： 有关 SurrogateInterceptionMode 注册表设置的详细信息，请参阅《参考指南》。

IA64 功能支持限制

IA64 平台不支持以下功能：

- Unicenter TNG 迁移和集成
- 大型机密码同步
- STOP
- 报告代理
- PUPM 代理
- SSL
- FIPS 140-2 遵从性

Windows Server 2008 功能支持限制

以下是 Windows Server 2008 上的已知限制：

- 模拟截获（即类 SURROGATE 功能）（如果将 SurrogateInterceptionMode 设置为 1）

重要说明！ 默认情况下，x64、IA64 和 x86 平台通过 RunAs 插件支持模拟截获（SurrogateInterceptionMode 设置为 0）。

注意：有关 SurrogateInterceptionMode 注册表设置的详细信息，请参阅《参考指南》。

SAN 支持

当您将在 CA Access Control 安装到以下系统时，CA Access Control 支持 SAN（存储区域网络）环境：

- 本地文件系统，当该 SAN 仅可从单个主机访问时用来保护 SAN 中的文件。

注意：如果 SAN 可从多个主机访问，则将 CA Access Control 安装到可以访问该 SAN 的每个主机并使用每个安装来保护 SAN 中的文件。

- SAN 磁盘受以下限制：
 - CA Access Control 驱动程序必须安装到本地文件系统。
 - 每当启动或重新启动计算机时必须手工启动 SAN 磁盘中的 CA Access Control。当启动或重新启动计算机时不自动启动 CA Access Control。

注意：在您将 CA Access Control 安装在 SAN 磁盘时先前的条件仅应用。如果您将 CA Access Control 安装在本地的文件系统并用其来保护 SAN 中的文件，那么在每次重新启动计算机时您不需手工启动 CA Access Control。

如果 SAN 可从多个主机访问且 CA Access Control 安装在 SAN 中，而且想要将 CA Access Control 从其他主机安装到 SAN 的相同位置，请在开始之前考虑以下方面：

- CA Access Control 的新安装替代现有的 CA Access Control 安装并覆盖现有 CA Access Control 的配置文件和数据库。
- 必须在开始新安装之前停止现有 CA Access Control 的安装。

McAfee Enterccept 缓冲区溢出

CA Access Control 的 STOP 功能与 McAfee Enterccept 缓冲区溢出技术不兼容。

请关闭 CA Access Control STOP 功能或 McAfee Enterccept 缓冲区溢出保护功能。

不支持短文件名规则（8.3 格式）

CA Access Control 不支持以短文件名（8.3 格式）创建的规则。定义以下任何类时，必须输入文件或目录的完整路径名：

FILE、PROGRAM、PROCESS、SECFILE、SPECIALPGM

以下是使用完整路径名的规则示例：

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

以下是不受支持的使用短路径名的规则示例：

```
nr 文件 ("C:\progra-1\test.txt")
```

UNIX 端点限制

本节介绍了 UNIX 端点的功能支持限制。

HP-UX 功能支持限制

以下是 HP-UX 操作系统上的已知 UNAB 和 CA Access Control 限制：

- 不支持 HP-UX 可靠计算基础 (TCB)。
- seversion 实用程序不显示 SHA-1 签名。

HP-UX Itanium 和 RHEL Itanium 不支持 Unicenter 集成。

HP-UX Itanium (IA64) 和 Red Hat Linux Itanium IA64 不支持 Unicenter 集成。

Linux IA64 不支持 PUPM 代理

Linux Itanium (IA64) 不支持 PUPM 代理。无论在安装时如何选择，CA Access Control 都不会在这些操作系统上安装 PUPM 代理。

注意： Linux IA64 也不支持 UNAB。

SAN 支持

将 CA Access Control 安装在本地文件系统上并用来保护 SAN（存储区域网络）上的文件时，如果该 SAN 可从安装有 CA Access Control 的单个主机进行访问，则 CA Access Control 支持 SAN 环境。

注意：如果 SAN 可从多个主机访问，则将 CA Access Control 安装到可以访问该 SAN 的每个主机并使用每个安装来保护 SAN 上的文件。

如果 SAN 可从多个主机访问且 CA Access Control 安装在 SAN 中，而且想要将 CA Access Control 从其他主机安装到 SAN 的相同位置，请在开始之前考虑以下方面：

- CA Access Control 的新安装替代现有的 CA Access Control 安装并覆盖现有 CA Access Control 的配置文件和数据库。
- 必须在开始新安装之前停止现有 CA Access Control 的安装。

注意：在 SAN 上安装 CA Access Control 时未指定其行为，它会从连接的多台主机执行。

UNAB 限制

本节介绍了 UNAB 端点的功能支持限制。

单向信任不支持嵌套组

单向信任功能不支持嵌套组。

单向信任不支持完全集成的 Active Directory 用户

在 HP-UX 上有效

单向信任功能不支持完全集成的 Active Directory 用户。

uxconsole 显示单向信任域的基本信息

uxconsole 仅显示单向信任域中用户和组的基本信息。

在 Linux IA64 上不支持 UNAB

目前，您无法在 Linux IA64 操作系统上安装 UNAB。

UNAB 不符合 FIPS140-2 和 IPV6 标准

目前，UNAB 不符合 FIPS140-2 和 IPV6 标准。

PUPM 限制

本节介绍了 PUPM 端点和服务器组件的功能支持限制。

PUPM 不符合 FIPS140-2 和 IPV6 标准

目前，PUPM 不符合 FIPS140-2 和 IPV6 标准。

第 8 章： 安装注意事项

此部分包含以下主题：

[支持的安装语言](#) (p. 47)

[Windows 端点安装注意事项](#) (p. 48)

[UNIX 端点安装注意事项](#) (p. 48)

[UNAB 端点安装注意事项](#) (p. 49)

[服务器组件安装注意事项](#) (p. 49)

支持的安装语言

您可以指定企业管理服务器和 CA Access Control 的安装语言。以下是您可以指定的受支持的语言 ID 及其代表的语言：

企业管理服务器支持以下语言：

- 1033—英语
- 1041—日语
- 1042—韩语
- 2052—中文（简体）
- 1031—德语
- 1040—意大利语
- 1036—法语
- 1046—葡萄牙语（巴西）
- 1034—西班牙语

注意：只能生成英语、日语和韩语 CA Access Control 报告。

适用于 Windows 的 CA Access Control、适用于 UNIX 的 CA Access Control 和 UNAB 支持以下语言：

- 1033—英语
- 1041—日语
- 1042—韩语
- 2052—中文（简体）

Windows 端点安装注意事项

本节介绍了在 Windows 端点上安装 CA Access Control 时应注意的事项。

在 Windows Server 2008 上安装、卸载或升级期间弹出重新启动消息

在 Windows Server 2008 上安装、卸载或升级 CA Access Control 时，可能会显示一个对话框，提示您完成此过程后需要重新启动。要想继续，请选择“确定”关闭对话框。

UNIX 端点安装注意事项

本节介绍了在 UNIX 端点上安装 CA Access Control 时应注意的事项。

AIX 6.1 需要具有 TL3 或更高版本才能启动 CA Access Control

在 AIX 6.1 上有效

要在 AIX 6.1 上加载 CA Access Control，请验证是否已安装 TL3 或更高版本。

Linux390 的消息队列需要 J2SE 5.0 版

要在 Linux s390 和 s390x 端点上使用消息队列功能，请验证端点上是否安装了 J2SE 5.0 版或更高版本。通过消息队列功能，您可以将报告数据发送到报告门户，将审核数据发送到 CA Enterprise Log Manager。

注意：您可能需要在 `accommon.ini` 文件中配置 `java_home` 配置设置。有关详细信息，请参阅《实施指南》。

x86_64bit Linux 上缺少兼容性库

默认情况下，x86_64 Linux 操作系统在安装时不应包括 32 位兼容性库。CA Access Control 端点要求库 `libstdc++.so.6` 存在于 `rpm libstdc++` 的 `usr/lib` 目录中。

请在安装 CA Access Control 之前验证端点上是否存在此库。

CA Access Control 安装和卸载会重新启动 UNAB

在运行 UNAB 的端点上安装或卸载 CA Access Control 时，UNAB 代理 uxauthd 会停止并启动。

将 CA Access Control 和 UNAB 传播到新的 Solaris 区域

设置新的 Solaris 区域时，本地操作系统完全传播且运行程序包的后安装部分之前，您必须完成几个后安装步骤，您才可以将 CA Access Control 和 UNAB 传播到新区域。

注意：有关正确设置新区域的详细信息，请参阅 [Oracle Documentation 网站](#)上 Oracle 的《系统管理指南：Solaris Containers—资源管理和 Solaris Zones》。

在 Solaris 11 上安装 CA Access Control 的限制

由于 Solaris 11 的限制，在安装期间不会将 CA Access Control 包传播到非全局区域。我们建议您使用 Solaris 本地打包工具 (pkgadd) 分别在每个区域安装 CA Access Control。

UNAB 端点安装注意事项

本节介绍了安装 UNAB 端点时应注意的事项。

适用于 Linux 390 的 UNAB 需要安装 J2SE 5.0 版才能进行远程管理

要远程管理 Linux s390 和 s390x 端点，请验证端点上是否安装了 J2SE 5.0 版或更高版本。通过远程管理，您可以使用 CA Access Control 企业管理管理 UNAB 端点。

注意：您可能需要在 acccommon.ini 文件中配置 java_home 配置设置。有关详细信息，请参阅《实施指南》。

服务器组件安装注意事项

本节介绍了安装服务器组件（企业管理服务器、CA Access Control 端点管理 和企业报告）时应注意的事项。

在同一时区安装主企业管理服务器和负载均衡企业管理服务器

在为高可用性配置企业管理服务器时，请确认主服务器和负载均衡服务器安装在同一时区。

在 64 位 Linux 上安装端点管理

要在 64 位 Linux 服务器上安装端点管理，请安装 CA Access Control 端点管理 32 位版本。需要 32 位版本是因为端点管理安装 32 位 Web 服务。

管理员名称中的特殊字符

在 Windows 上有效

管理帐户用户名不得包括任何特殊字符。例如：“-”字符。

支持的 JDK 和 JBoss 版本

您可以在 CA Access Control 高级版 第三方组件 DVD 上找到支持的 JDK 和 JBoss 版本。

先决条件工具包安装程序注意事项

使用先决条件工具包安装程序实用程序从介质安装 CA Access Control 企业管理时，必须在系统提示您插入 CA Access Control 企业管理 DVD 之后选择“完成”，才能继续执行操作。可能还需要关闭插入 DVD 时出现的 ProductExplorer 窗口。

服务器组件安装所需的超级用户帐户

要安装任何 CA Access Control 服务器组件（如端点管理和企业管理），您必须以超级用户身份（UNIX 上的 root 用户，或 Windows 上的管理员组成员）登录。

如果找不到 Java，RDBMS 连接在安装期间失败

在 CA Access Control 企业管理 安装期间，如果当 CA Access Control 企业管理 尝试连接到 RDBMS 时发生连接失败，可能表明找不到 java.exe。

请确保 java.exe 的完整路径名位于系统的 PATH 环境变量中。

企业管理服务器安装不支持安装路径中包含空格

在 UNIX 上有效

在安装企业管理服务器时，请不要在安装路径中输入空格。

设置 CA Access Control 企业管理 使其与其他域中的 Active Directory 结合使用

如果要与安装 CA Access Control 企业管理 的域之外的 Active Directory 结合使用，必须更改主机 TCP/IP 设置。

设置 CA Access Control 企业管理 使其与其他域中的 Active Directory 结合使用

在 Windows 中

1. 依次单击“开始”、“控制面板”和“网络连接”。
将显示“网络连接”窗口。
2. 右键单击活动的网络连接，然后单击“属性”。
将出现“连接属性”对话框，并打开“常规”选项卡。
3. 选择“Internet 协议 (TCP/IP)”，然后单击“属性”。
将显示“Internet 协议 (TCP/IP) 属性”的“常规”选项卡。
4. 在打开的对话框中单击“高级”，然后单击“DNS”选项卡。
将显示“高级 TCP/IP 设置”的“DNS”选项卡。
5. 单击“添加”，并输入 Active Directory 所在域的 DNS 服务器的 IP 地址。
6. 选择“附加这些 DNS 后缀 (按顺序)”，然后单击“添加”添加后缀。
将显示“TCP/IP 域后缀”对话框。
7. 输入域后缀。
示例： *company.com*
8. 在所有打开的对话框中单击“确定”以确认所做的更改，然后退出。

在 UNIX 中

验证 Active Directory 所在域的 DNS 服务器名称是否已设置为正确的值。

要验证 DNS 域名，请打开文件 `/etc/resolv.conf`，并验证域是否已设置为正确的值。

CA Access Control 端点管理 安装说明适用于 CA Access Control 的两个版本

《实施指南》的“安装 CA Access Control 端点管理”一章中的 CA Access Control 端点管理 安装说明同样适用于 CA Access Control 高级版 和 CA Access Control。对于想要安装 CA Access Control 端点管理 的非 CA Access Control 高级版 用户，应遵循这些说明并使用非高级服务器 DVD。

CA Access Control 端点管理 快捷方式指向端口号 8080

默认情况下，CA Access Control 端点管理 安装程序将设置指向端口号 8080 的快捷方式。要更改默认设置，必须直接从 CA Access Control 高级版 DVD（而非 ProductExplorer）运行 CA Access Control 端点管理 安装程序。

可使用以下命令行定义要在安装 CA Access Control 端点管理 时使用的端口：

```
install_EM.exe -DJBOSSE_PORT=<18080>
```

或者，可以在安装后编辑 CA Access Control 端点管理 快捷方式，使其指向其他端口。

CA Enterprise Log Manager 仅支持可靠 SSL 连接

定义 CA Enterprise Log Manager 服务器的连接设置时，也定义了 SSL 连接设置。CA Enterprise Log Manager 不支持非 SSL 连接。

注意：有关与 CA Enterprise Log Manager 集成的更多信息，请参阅《实施指南》。

从 CA Access Control 企业管理 查看 CA Enterprise Log Manager 报告所需的特殊订阅

要从 CA Access Control 企业管理 界面查看 CA Access Control 企业管理 报告，请对 CA Enterprise Log Manager 服务器应用特殊订阅更新。

应用订阅更新

1. 在 CA Enterprise Log Manager 中，单击“管理”选项卡、“服务”子选项卡，然后选择“订阅模块”。

2. 提供以下 RSS feed URL:

<http://securityupdates.ca.com/CA-ELM/r12/OpenAPI/RSSFeed.xml>

3. 下载所有模块并将其应用到 CA Enterprise Log Manager。

现在您可以从 CA Access Control 企业管理 查看 CA Enterprise Log Manager 报告。

同步 CA Access Control 企业管理 和报告门户计算机的系统时间

如果将报告门户与 CA Access Control 企业管理 安装在不同的计算机上，必须使两台计算机的系统时间同步。如果不同步系统时间，CA Access Control 企业管理 生成的报告将一直处于挂起或重复状态。

如果您不是超级用户，卸载将失败

要卸载任何 CA Access Control 服务器组件（如端点管理和企业管理），您必须以超级用户身份（UNIX 上的 root 用户，或 Windows 上的管理员）登录。如果不以超级用户身份登录，卸载将失败。

第 9 章： 升级注意事项

此部分包含以下主题：

[可以升级的版本](#) (p. 55)

[Windows 端点升级注意事项](#) (p. 55)

[UNIX 端点升级注意事项](#) (p. 56)

[服务器组件升级注意事项](#) (p. 57)

可以升级的版本

您可以将 CA Access Control 端点从以下版本升级到 r12.6.01：

- r12.6
- r12.5.5
- r12.5 SP4
- r12.5 SP3
- r12.5 SP2
- r12.5 SP1
- r12.5
- r12.0 SP1
- r12.0
- 任何 r8 SP1 CR

您无法将 CA Access Control 端点从以下版本升级到 r12.6.01：

- r8 SP1 GA
要升级 r8 SP1 GA 端点，请在升级到 r12.6.01 之前，为 r8 SP1 安装最新的 CR。
- r5.2 和 r5.3
要升级 r5.2 或 r5.3 端点，请在升级到 r12.6.01 之前，为 r8 SP1 安装最新的 CR。

Windows 端点升级注意事项

本节介绍了在 Windows 端点上升级 CA Access Control 时应注意的事项。

升级时可能需要重新启动

将端点从 r12.0 SP1 或更高版本升级到此版本时，不强制重新启动计算机。升级后，CA Access Control 会保留向后兼容性。但是，只有重新启动计算机后升级才算完成，所有新功能也只有在重新启动计算机后才能使用。

将端点从 r8.0 SP1 或 r12.0 升级到此版本时，必须重新启动计算机。

更改数据库的默认访问权限

现在 seosdb（CA Access Control 数据库）的默认访问权限为无。在 r12.5 SP2 和更低版本中，数据库的默认访问权限为读取。

注意：CA Access Control 内部进程对数据库具有完全访问权限，而 NT AUTHORITY\System 用户对数据库具有读取访问权限。

UNIX 端点升级注意事项

本节介绍了在 UNIX 端点升级 CA Access Control 时应注意的事项。

默认安装位置

在 r12.0 中，默认安装位置有所更改，更改后的安装位置如下：

```
/opt/CA/AccessControl
```

FIPS 140-2 库升级

此 CA Access Control 版本使用 CAPKI 4.1.2，而非 ETPKI 3.2。升级将自动进行，如果有其他组件在使用 ETPKI 3.2 库，则升级时会保留计算机中的 ETPKI 3.2 库。为确定是否有其他组件在使用 ETPKI 3.2，CAPKI 将使用内部参考计数。如果此计数等于 0，ETPKI 3.2 会在升级时卸载。

UNIX 升级的系统范围审核模式

SEOS 类中的 `SYSTEM_AAUDIT_MODE` 属性为用户和企业用户指定了默认审核模式（系统范围的审核模式）。升级到 CA Access Control r12.5 SP1 或更高版本时，CA Access Control 将 `SYSTEM_AAUDIT_MODE` 属性的值设置为 DefaultAudit 配置设置（位于 `lang.ini` 文件的 `[newusr]` 部分中）的值。

注意： `SYSTEM_AAUDIT_MODE` 属性和 DefaultAudit 配置设置的默认值均为 Failure LoginSuccess LoginFailure。

授权识别资源组所有权

检查用户对资源的授权时，CA Access Control 会考虑资源组所有权。该操作在 12.0 中曾经介绍。在先前版本中，授权进程只考虑资源的所有者。

例如：对于一个默认访问权限为“无”，且所有者并非成员的 FILE 资源，您将其定义成已命名所有者的 GFILE 资源。在 CA Access Control r12.0 及更高版本中，命名的组所有者对该文件拥有完全访问权限。在较早版本中，没有用户可以访问该文件。

syslog 消息的优先级降低

以下 syslog 消息的优先级降到了信息级别（INFO，而非 ERROR）：

- CA Access Control 后台进程即将关闭。
- START-UP: CA Access Control PID=%d
- SEOS_load: use_streams=\$use_streams
unload_enable=\$unload_enable
- 正在加载 CA Access Control 内核扩展。
- 已加载 \$prodname 内核扩展。
- 启动 \$SeosBinDir/seosd 后台进程。（CA Access Control）
- Watchdog 已启动。
- Watchdog 已初始化 Watchdog 扩展。

服务器组件升级注意事项

本节介绍了升级服务器组件（企业管理服务器、CA Access Control 端点管理和企业报告）时应注意的事项。

将企业管理服务器升级到 r12.6.01 不保留角色和任务

症状:

在我将企业管理服务器升级到 r12.6.01 时，我在升级之前创建的角色和任务不会出现。

解决方案:

在升级到 r12.6.01 时，企业管理服务器不会保留角色和任务。企业管理服务器仅保留成员资格策略。

CA Access Control r12.6.01 需要即时修正才能在 CA Access Control r12.5 和 r12.0.01 上管理策略模型

如果您在使用 CA Access Control r12.6.01 服务器来管理 CA Access Control r12.5 或 r12.0.01 端点上的策略模型，请安装以下即时修正：

- 对于 r12.5 端点，请安装即时修正 T537526
- 对于 r12.0.01 端点，请安装即时修正 T537569

注意：有关详细信息，请访问 <http://ca.com/support> 与 CA 支持联系。

升级之前需要热修复程序，才能使用包含空格的策略和主机组

在 Linux 上有效

要使用带有空格字符的策略和主机组，请在升级到 CA Access Control r12.6 之前为您使用的操作系统安装热修复程序。

在端点上部署策略所需的软件修补程序

要从 CA Access Control 企业管理 r12.6 部署 CA Access Control r12.5 端点上的策略，必须在企业管理服务器上安装修补程序 T537526。

请从 [CA 支持网站](#) 下载该软件修补程序。

CA Access Control 企业管理 默认加密方法设置为 256AES

CA Access Control 企业管理 默认加密方法现在设置为 256AES，而不是 SCRAMBLE。

第 10 章： 一般注意事项

此部分包含以下主题：

[Windows 端点注意事项](#) (p. 59)

[UNAB 注意事项](#) (p. 59)

[服务器组件注意事项](#) (p. 61)

Windows 端点注意事项

本节介绍了在 Windows 端点上使用 CA Access Control 时应注意的事项。

RunAs 管理员在 Windows Server 2008 上启动 CA Access Control

在 Windows Server 2008 上有效

要使用命令行选项 (`seosd -start`) 启动 CA Access Control，您需要具有管理员权限（如果启用了用户帐户控制 (UAC) 选项）。使用 RunAs 选项运行命令提示符，并指定具有管理权限的用户帐户。

卸载不删除 CA 许可文件

当您卸载 CA Access Control 时，不会删除 CA 许可文件。默认情况下，CA 许可文件位于 CA_license 目录（如 `C:\Program Files\CA\SharedComponents\CA_LIC`）。

UNAB 注意事项

本节介绍了使用 UNAB 时应注意的事项。

迁移后禁用本地用户帐户

将用户帐户完全迁移到 Active Directory 后，您可以通过在 `etc/passwd` 文件中帐户条目的开头添加星号 (*) 来禁用本地 UNIX 帐户。

不要将 `unab_refresh_interval` 标记值设置为短时间间隔

为避免 UNAB 性能问题，请不要将 `unab_refresh_interval` 标记值设置为短时间间隔。

不要将 `Kerberos dns_lookup_realm` 设置为 `true`

适用于 SSO 模式

建议除非有必要，否则不要将 `Kerberos dns_lookup_realm` 值设置为 `true`。如果设置为 `true`，Kerberos 会启动不必要的 DNS 搜索，这会大幅减慢 UNAB 登录过程。

UNAB 用户无法根据指定的密码策略更改帐户密码

如果 UNAB 用户无法更改其帐户密码，请确定您使用的域控制器安全策略未禁止用户更改其帐户密码。

sepass 与 UNAB 端点集成

sepass 实用程序与 UNAB 集成在一起。通过此集成，用户可以在安装了 CA Access Control 和 UNAB 的端点上更改其 Active Directory 密码。

将 sepass 与 UNAB 集成：

- 确定您将 `seos.ini` 文件中的“`change_pam`”标志值设置为 **yes**。配置此标志以指示 sepass 使用 PAM 界面更改密码。
- 确定您将 `seos.ini` 文件中的“`auth_login`”标志值设置为 **pam**。配置此标志以指示 sepass 使用 PAM 界面验证现有密码。

注意：有关 `seos.ini` 初始化文件标志的详细信息，请参阅《参考指南》。

使用 Active Directory 帐户登录到 UNAB

如果您要使用本地主机上之前不存在的 Active Directory 帐户登录到 UNAB，请执行以下步骤：

1. 使用以下命令向 Active Directory 注册 UNAB 主机：

```
uxconsole -register
```

2. 使用以下命令激活 UNAB：

```
uxconsole -activate
```

3. 创建 UNAB 登录授权（登录策略）或本地登录策略（users.allow、users.deny、groups.allow、groups.deny），以使 Active Directory 用户能够登录。

安装 UNAB 后，无法使用管理员帐户登录到 CA Access Control for UNIX

在端点上安装 UNAB 之后，无法使用 Active Directory 管理员用户帐户登录到适用于 UNIX 的 CA Access Control 端点。要解决此问题，您可以为此帐户创建 userPrincipalName。

CA Access Control 安装和卸载会重新启动 UNAB

在运行 UNAB 的端点上安装或卸载 CA Access Control 时，UNAB 代理 uxauthd 会停止并启动。

服务器组件注意事项

本节介绍了使用服务器组件（CA Access Control 端点管理、CA Access Control 企业管理 和企业报告）时应注意的事项。

CA Access Control 组件与 CA Access Control 消息队列之间的通讯问题

以下 CA Access Control 组件依靠与 CA Access Control 消息队列的通讯来实现一些功能：

- 企业管理服务器
- 报告代理
- DMS
- DH
- UNAB
- PUPM 密码使用方
- 代理管理器

这些组件可能会由于以下原因而无法与消息队列进行通讯：消息队列未运行、没有为消息队列主机或队列正确设置配置选项，或者出现常规网络错误。

如果其中任何一个组件与消息队列之间的通讯无法建立或断开，在问题修复后，通讯不会自动恢复。要解决此问题，您必须修复通讯问题，然后重新启动 CA Access Control 组件。

CA Access Control 主机名限制

CA Access Control 端点的主机名不得超过 15 个字符。如果 CA Access Control 计算机的主机名超过 15 个字符，您将无法使用 CA Access Control 端点管理 登录端点。

自动生成策略取消部署脚本

取消部署没有相关取消部署脚本的策略时，CA Access Control 会自动生成所需的脚本以删除策略。此脚本基于部署脚本。

如果要删除策略但 *保持策略规则不变*（在部署脚本中），请提供具有不修改任何项的规则的取消部署脚本（例如：`er GPOLICY policyName`）。

指定 PUPM 端点 NetBIOS 名称而非 DNS 域名

在 CA Access Control 企业管理 中创建 PUPM 端点时，您在“名称”字段中指定的主机名必须与“全局查看”中显示的主机名匹配。

如果端点是 Active Directory 端点，请在“主机域”字段中指定 NETBIOS 域名。如果端点不是 Active Directory 端点，请在“主机域”字段中指定 NETBIOS 主机名，而不是 DNS 域名。例如：如果端点不是 Active Directory 端点，请在“主机域”字段中指定 NETBIOS 主机名 (ACSERVER)，而不是端点 DNS 域名 (acserver.company.com)。

如果指定 DNS 域名，PUPM 自动登录等高级功能将失败。

最多可以配置一个 CA Identity Manager 置备连接器服务器

在 CA Access Control 企业管理 中最多可以配置一个 CA Identity Manager 置备连接器服务器。

无法使用 SSL 端口配置 CA Identity Manager 置备连接器服务器

配置 CA Identity Manager 置备连接器服务器时，请不要指定 CA Identity Manager 置备服务器 SSL 端口 (20390)。如果指定连接器服务器 SSL 端口，则连接器服务器的连接将失败。

无法使用 PUPM 更改专家帐户的密码

如果在 SSH 端点上使用检查点防火墙，则无法使用 PUPM 在端点上更改专家帐户的密码。此限制意味着，专家帐户必须是 PUPM 中的断开帐户。

SQLCMD 实用程序不支持空密码

在 SQL Server 上有效

SQL Server 命令实用程序 sqlcmd 不支持空密码。如果已在 CA Access Control 企业管理 中将 SQL Server 端点定义为密码使用方并从 PUPM 签出密码，请不要将密码字段留空。您可以指定帐户密码或任何其他字符串作为密码。

第 11 章： 已知问题

此部分包含以下主题：

[安装已知问题](#) (p. 65)

[已知升级问题](#) (p. 68)

[一般已知问题](#) (p. 68)

安装已知问题

本节介绍了 CA Access Control 组件的安装已知问题。

Windows 端点安装已知问题

本节介绍了 Windows 端点的安装已知问题。

从 MSI 文件进行安装时出现“找不到有效源”消息

升级 CA Access Control 时，可能会出现“找不到有效源”消息。如果当前使用的介质与最初用于安装 CA Access Control 的介质的 MSI 文件位于不同的路径中，将出现此消息。

要解决此问题，请添加名为“MediaPackage”的注册表字符串，并指定 CA Access Control msi 软件包的相对路径。在以下路径中添加注册表字符串：

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

例如：如果在 32 位 Windows 操作系统上安装 CA Access Control，则 msi 文件的完整路径为：E:\x86\，其中 E: 是可移动介质驱动器。在 MediaPackage 值中，指定值：\x86\

UNIX 端点安装已知问题

本节介绍了 UNIX 端点的安装已知问题。

如果在本地安装中进行自定义，以使 **CA Access Control** 和 **UNAB** 安装在同一非默认位置，则卸载失败

在 **AIX** 和 **HP-UX** 上有效

症状:

在我使用本地安装安装 **CA Access Control** 和 **UNAB** 并将安装目录自定义为非默认位置的同一路径之后，卸载 **CA Access Control** 失败。

解决方案:

卸载 **CA Access Control** 使 **UNAB** 安装损坏且失败。卸载失败，因为 **CA Access Control** 和 **UNAB** 被安装在同一目录中。如果在本地安装中进行自定义，以便安装到一个非默认目标文件夹，则建议您将产品名称（**AccessControl** 或 **AC**）与 **CA Access Control** 安装目标路径合在一起。

RPM 软件包验证可能返回错误

验证 RPM 程序包安装时，可能会收到一些验证错误。

这些错误并不表明已安装的产品功能存在问题，您可以放心地忽略它们。

客户端-服务器通讯模式不兼容

使用 **non_ssl** 或 **all_modes** 设置的客户端无法与使用 **fips_only** 通讯模式设置的服务器通讯。

Linux Z 系列的 API 库是 32 位

CA Access Control 为 Linux Z 系列 (s390x) 提供 32 位 API 库。

CA Access Control 不为 Linux Z 系列 (s390x) 提供 64 位库。

HP-UX 需要更新后的修补程序级别

在 **HP-UX** 上，**CA Access Control** 需要更新后的修补程序级别才能正确安装。建议使用以下操作系统修补程序：

- IA64 上的 11.23—日期为 2006 年 9 月或更晚的修补程序 **PHSS_37492** 或操作系统 **QPK1123** 包。
- PA-RISC 上的 11.11—支持“**dld_getenv**”的操作系统路径或日期为 2006 年 12 月或更晚的操作系统 **QPR** 包。
- PA-RISC 上的 11.23—日期为 2006 年 12 月或更晚的操作系统 **QPK** 包。

PAM 在具有较早版本 /lib64/libc.so.6 库的 Linux s390x 上无法正常工作

如果主机上的 /lib64/libc.so.6 库比编译 CA Access Control PAM 库所用版本更早，那么 Linux s390 和 s390x 中的 PAM 将不会工作。

该库的版本应为 2.3.2 或更高。

UNAB 端点安装已知问题

本节介绍了 CA Access Control 端点的安装已知问题。

当安装 CA Access Control 时，UNAB 重新启动两次

在 IBM AIX 上有效

在 IBM AIX 上安装 CA Access Control 时若 UNAB 已在运行，UNAB 会重新启动两次。这是因为 AIX 执行其他内核检查。

当本地安装自定义为在同一非默认位置安装 CA Access Control 和 UNAB 时，卸载失败

在 AIX 和 HP-UX 上有效

症状：

在我使用本地安装安装 CA Access Control 和 UNAB 并将安装目录自定义为非默认位置的同一路径之后，卸载 UNAB 失败。

解决方案：

卸载 CA Access Control 使 UNAB 安装损坏且失败。卸载失败，因为 CA Access Control 和 UNAB 被安装在同一目录中。将本地安装自定义到一个非默认目标文件夹时，建议您将产品名称（uxauth 或 UNAB）连接到目标路径。

安装 SELinux 广泛策略两次会显示不正确的消息

症状：

如果您在 UNAB 上在现有的 SELinux 广泛策略基础上再次安装 SELinux 广泛策略，则会显示以下消息：

策略已成功安装

解决方案：

该消息是不正确的，因为 UNAB 已安装 SELinux 广泛策略。

UNAB 不支持 CA Access Control r8.0 SP1 和 r12.0 SP1

目前，您无法在 CA Access Control r8.0 SP1 和 r12.0 SP1 端点上安装 UNAB。此外，UNAB 和 CA Access Control 的版本或 Service Pack 必须完全相同。

已知升级问题

本节介绍了 CA Access Control 组件的升级已知问题。

Windows 端点升级已知问题

本节介绍了 Windows 端点的升级已知问题。

升级期间出现“没有足够的权限修改文件”消息

如果在升级 CA Access Control 端点时出现一则消息，通知您安装程序没有足够的权限修改文件，请确认该消息并继续升级。

UNIX 端点升级已知问题

本节介绍了 UNIX 端点的已知升级问题。

升级后 seaudit 和 sebuildla 出现权限被拒绝消息

在 AIX 上有效

在使用本地程序包升级之后，您可能在使用 seaudit 和 sebuildla 实用程序时收到权限被拒绝的错误消息。

要解决此问题，请重新托管这些实用程序以完成升级。

r12.0 之前的版本必须使用最多 54 个字符作为加密密钥

如果您的环境包括早于 r12.0 版本的 CA Access Control，则必须使用最多 54 个字符作为加密密钥。

一般已知问题

本节介绍了 CA Access Control 组件的一般已知问题。

Windows 端点已知问题

本节介绍了适用于 Windows 的 CA Access Control 的已知问题。

CA Access Control 端点管理的审核筛选引起性能降低

如果 CA Access Control 端点管理 无法找到指定的记录，那么在 CA Access Control 端点管理 的审核记录上应用筛选可能带来性能降低。此性能降低适用于非常大的审核文件，并且局限于请求审核记录的客户端。

例如，如果您定义了审核记录筛选，以显示特定 FILE 资源的最后 100 个相关记录，并且审核文件包含不到 100 个记录，那么 CA Access Control 端点管理 将无限重复此请求。

Microsoft Internet Explorer 7.0 与 CA Access Control 的兼容性问题

由于 Microsoft Internet Explorer 7.0 与 CA Access Control 存在兼容性问题，浏览器可能会停止响应。要解决该问题，请安装 Microsoft Internet Explorer 8.0 或执行以下操作：

重要说明！ 请在开始此过程之前应用 Microsoft 软件修补程序 KB957388。您可以从 Microsoft 网站下载该软件修补程序。

1. 停止所有 CA Access Control 服务。
2. 打开命令行窗口，然后运行以下命令：

```
net stop cainstrm
```

3. 从“运行”命令行窗口打开 regedit 实用程序。
4. 导航至以下路径：

```
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cainstrm\parameters
```

5. 修改 ExcludeProcess 注册表项值以包括 iexplorer.exe 文件。
6. 从命令行窗口运行以下命令：

```
net start cainstrm
```

7. 启动 CA Access Control 服务。

特权进程可以在未经授权的情况下保存和还原注册表树

在 Window Server 2003 及更高版本上，当进程获得特殊权限 SE_BACKUP_NAME 和 SE_RESTORE_NAME 时，它可以在未经 CA Access Control 授权的情况下保存和还原注册表树。

Windows x64 上的仅 FIPS 模式

现在，适用于 Windows 的 x64 CA Access Control 端点支持 CAPKI 4.1.2。但是，由于 RSA 的某个已知问题，在启用了 FIPS 的模式下运行 CAPKI 4.1.2 时，通讯会明显延迟。

selang 中的重命名 HOST 事件在 CA Enterprise Log Manager 报告中标记为未知事件

selang 中执行的重命名 HOST 事件在 CA Enterprise Log Manager 报告中显示为未知事件。

卸载不会删除数据和日志目录

卸载 CA Access Control 时，不会删除数据和日志目录。默认情况下，数据和日志目录位于以下位置：

```
\Program Files\CA\AccessControl\
```

UNIX 端点已知问题

本节介绍了 CA Access Control for UNIX 的已知问题。

CAWIN 安装需要 Ncurses

在 Linux 64 位服务器上有效

在 Linux 64 位服务器上安装 CAWIN 之前，先安装 Ncurses 32 位。

为 CA Access Control 管理员定义完全限定名称

在 Linux 上有效

在 Linux 上创建 *AC for PUPM* 端点类型时，请确认 CA Access Control 管理员用户名定义为完全限定名称。例如，`computer-name\user-name` 或 `entmcomputer\root`。

在最小 Linux x64 安装上 CAWIN 安装失败

在 Linux x64 上有效

安装在最小 Linux x64 安装时，CAWIN 安装失败。因为缺少 32 位库，所以安装失败。

注意：CAWIN 是 CA Access Control 安装的一部分。CAWIN 相关错误消息记录在 CA Access Control 安装日志文件中。

要解决此问题，请安装 32 位 ncurses RPM 程序包和 libncurses.co 文件。请验证程序包版本不在版本 5.0 以下。例如：

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

在 serevu 后台进程运行时失败的登录事件不审核

在 VMware vCenter 4.0 u2 上有效

在 CA Access Control 安装在 VMware vCenter 版本 4.0 u2 上时，serevu 后台进程正在运行时，以下情况就会发生：

- 失败登录事件的登录记录不在审核文件中显示
- pam_seos_failed_login.log 文件大小是 0

要解决此问题，请执行以下操作：

1. 停止所有 CA Access Control 后台进程。
2. 浏览至以下目录：

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

3. 编辑 system-auth 文件，删除所有到 pam_seos.so 的引用。例如：

```
account required pam_per_user.so /etc/pam.d/login.map
auth required pam_per_user.so /etc/pam.d/login.mapp
password required pam_per_user.so /etc/pam.d/login.map
session required pam_per_user.so /etc/pam.d/login.map
```

4. 编辑 system-auth-generic 文件，添加到 pam_seos.so 的引用。例如：

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

5. 编辑 system-auth-local 文件，添加到 pam_seos.so 的引用。例如：

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

6. 保存并关闭文件。
7. 启动 CA Access Control 后台进程。

SSH 登录不由 CA Access Control 或不由审核日志审核（启用 SELinux 时）

在 RedHat Linux Advanced Server 6 上有效

在 RedHat Linux Advanced Server 6 上，SSH 用户登录不由 CA Access Control 审核，因为 SELinux 默认策略不允许 SSHD 访问 /proc 文件系统。

要解决该问题，请运行 /opt/CA/AccessControl//sbin/sshd_policy.sh 脚本加载 SELinux 策略模块，以便允许访问 /proc。

无法在 Linux 上配置 JBoss JDBC 密码使用方

在 Linux 上有效

目前，您无法在 Linux 上配置 JBoss JDBC 密码使用方。

登录到 CA Access Control 需要启用 PAM_Login 标志

在 AIX 上有效

如果未启用 PAM_login 标志，CA Access Control 将无法正确检测到 Active Directory 用户帐户。

要解决此问题，请在设置的程序 (LOGINAPPL) 的日志中启用 PAM_login 标志。通过在 seos.ini 中的 [pam_seos] 部分下将 PamPassUserInfo 标记设置为 1，确定 seosd 后台进程接受来自 PAM 模块的登录请求。

如果在 /etc/shells 中没有定义默认 Shell，将不会记录用户会话

适用于键盘记录器

当用户使用 /etc/shells 中未定义的 shell 登录时，CA Access Control 不会记录用户会话。

在 PAM 处于活动状态时，不会为 FTP 和 SSH 宽限登录调用 segrace

激活 PAM 后，不会为 FTP 服务的宽限登录和 SSH 服务自动调用 segrace。

要为 FTP 解决此问题，请在 FTP 服务的 LOGINAPPL 记录中将 LOGINFLAGS 属性的值更改为 nograce。

要为 SSH 解决此问题，请不要从 PAM 调用 segrace，而是从用户或操作系统启动脚本调用 segrace。

宽限期满后 CA Access Control 不会重置密码

在 HPUX 和 AIX 上有效

如果 CA Access Control 端点上安装了 UNAB，则 CA Access Control PAM 在用户密码宽限期满后不会调用 sepass 实用程序来重置帐户密码。

此问题会影响使用 loginflags(pamlogin) 的登录应用程序，例如：SSH 登录、rlogin、FTP 以及 Telnet。在 HPUX 和 AIX 上，CA Access Control 不会将 SSH 登录识别为登录操作。要解决此问题，请对 SSH 登录应用程序使用 loginflags(none)。

Solaris 网络事件绕过不适用于某些进程

CA Access Control 在 Solaris 平台上不会为先于 CA Access Control 启动的进程绕过网络事件（绕过类型为 PBN 的 SPECIALPGM 记录）。

Stat 截获调用在 AIX 系统上不受支持

对于 STAT_intercept 标记设置为“1”的 stat 系统调用的文件访问检查在 AIX 系统上不受支持。

UNAB 已知问题

本节介绍了 UNAB 的已知问题。

无法使用 CA Access Control 企业管理 删除 UNAB 策略

修正了 UNAB 的问题，防止从 CA Access Control 企业管理的 Red Hat Linux 端点删除已部署的策略。

在 AIX 上信任的用户 SSH 登录失败

症状:

我试图使用 SSH 登录到 AIX 5.3 端点，但登录尝试失败。

解决方案:

此错误是 AIX 和 SSH 版本若干组合的已知 IBM 问题。该问题已被 IBM 开发部门记录为 APAR（授权程序分析报告），编号：IV10231。

甚至将 watchdog_enabled 标记设置为 No 时，uxauth 启动

症状:

我将标记 watchdog_enabled 设置为 no 并重新启动 UNAB 时，uxauth 启动。

解决方案:

第一次启动 uxauth 之后，watchdog 脚本会忽略对 watchdog_enabled 标记所做的更改。我们建议您在注册过程期间指定 `-n`，对标记进行更改，并分别启动 `uxauthd.sh` 脚本。

审核日志记录在尝试登录时使用本地帐户密码的登录

症状:

在我登录到 UNAB 且我的用户帐户存在于本地密码文件和 Active Directory 中时，审核日志显示以下记录：

```
<audit_record_date_and_time> A LOGIN map3
```

解决方案:

这是 UNAB 的已知问题。审核日志记录 A LOGIN，而不是 P LOGIN。

记录两次 Rlogin 条目

在 Linux 上有效

如果您登录到已使用 rlogin 安装了 UNAB 的主机，登录尝试将在审核中出现两次。

Microsoft Windows Server 2003 的热修复改进性能

在 Windows Server 2003 SP1、Windows Server 2003 64 位上有效

使用 LDAP_MATCHING_RULE_IN_CHAIN，LDAP 查询无法返回用于扩展搜索的 Active Directory 查询结果。

要解决该问题，为 Microsoft Windows 2003 Server 安装最新的 Service Pack，或通过将 wingrp_update_login 标记设置为 no 在登录期间禁用 UNAB 组更新。

注意：有关详细信息，请参阅 Microsoft 知识库文章 914828。

Uxpreinstall 实用程序无法验证主机名解析

在安装 UNAB 之后、注册 Active Directory 之前，uxpreinstall 实用程序无法验证主机名解析。

要解决此问题，请使用 -d 参数指定 Active Directory 域名。例如：

```
./uxpreinstall -d domain_name
```

审核记录中不显示 telnet 和 rlogin 程序

在 Linux、HP-UX 上有效

UNAB 审核记录不显示 telnet 和 rlogin 登录程序。在 Linux 中，UNAB 审核记录显示“remote”而不是 telnet 或 rlogin。在 HP-UX 上，UNAB 审核记录显示“login”而不是 telnet 或 rlogin。

uxconsole -register 和 -deregister 命令之间的间隔

如果要在 Active Directory 中注册 UNAB 主机之后又取消注册，建议您在取消注册主机之前等待域控制器复制所需的时间。

注意：如果取消注册 UNAB 主机，将删除未分发的策略。

新的域用户首次尝试登录时可能会失败

适用于 SSH

如果您在 Active Directory 中创建了一个用户后该新用户立即尝试登录到 UNAB 端点，则首次登录尝试将失败，但后续登录尝试会成功。首次登录尝试失败的原因是用户不为端点所知。但是，在失败的登录过程中，uxauthd 会将用户信息更新到本地 NSS 存储。后续登录尝试成功是因为现在端点已经知道该用户。

默认情况下，uxauthd 每小时更新一次 NSS 存储中的用户信息。如果新用户用户在 uxauthd 更新 NSS 存储之后再尝试登录到端点，登录将成功。

登录服务在 SSO 登录时跳过 PAM

多种登录服务在 SSO 登录时跳过 PAM。不会应用登录策略，也不会生成审核事件。

成功登录到主机后生成错误消息

适用于 Linux、AIX、HP-UX

UNIX PAM 流限制导致成功登录到 UNAB 主机的行为被记录为错误消息，在 syslog 文件中指出帐户身份验证失败。

发出检查登录命令时出现“提供的密码与操作系统密码不匹配”消息

在 Linux、HP-UX 上有效

如果您对没有获得登录授权的 Active Directory 用户发出 checklogin 命令，会显示“提供的密码与操作系统密码不匹配”错误消息。将显示此消息，而不会显示实际登录拒绝消息。

使用 sepass 更改密码时出现密码不匹配消息

在 AIX 5.3 上有效

当映射用户尝试使用 sepass 更改帐户密码时，会出现密码不匹配错误消息。无论出现什么错误消息，都将在 Active Directory 上更改帐户密码。

Active Directory 用户无法在 Solaris 上更改密码

由于 Sun Solaris 密码限制，使用 Active Directory 帐户登录到 UNIX 主机的用户无法使用 Solaris `passwd` 工具更改其帐户密码。如果用户必须在首次登录时更改帐户密码，用户必须从 Solaris 之外的系统进行登录。

如果 UNAB 正在 UNIX 主机上运行，请使用以下命令来更改本地帐户密码：

```
passwd -r files username
```

如果 CA Access Control 正在 UNIX 主机上运行，请使用 `sepass` 实用程序来更改本地帐户密码。

模拟 Active Directory 用户不会创建审核记录

如果您使用 `su` 模拟 Active Directory 用户，则不会审核模拟尝试。

SFTP 会话的审核记录中显示 `sshd` 程序名称

使用 `sftp` 程序所做的登录会话审核记录可能会在程序字段中显示 `sshd` 后台进程而不显示 `sftp` 程序。

事件查看器中的 UNAB 条目包含空白字段

Windows 事件查看器中显示的 UNAB 事件具有空白字段。

不审核企业用户的 FTP SSO 登录

适用于 Solaris

Kerberized FTP 和 `telnet` 程序会跳过 PAM 堆栈，因此 UNAB 不会审核企业用户的 FTP 和 `telnet` SSO 登录。

取消注册启用了 SSO 的 UNAB 不会删除 `keytab` 文件中的记录

当您取消注册先前在启用了 SSO 的情况下注册的 UNAB 主机时，会从 Active Directory 中删除该计算机对象，但不会从 `keytab` 文件中删除相应的记录。如果您再次试图注册 UNAB 主机，将不会创建 Kerberos 票单。

要解决此问题，建议您不要取消注册 UNAB 主机，或者删除 `keytab` 文件（如果它仅由 UNAB 主机使用）。

HP-UX 不支持在密码中使用 @ 符号

在 HP-UX 上有效

由于 HP-UX 限制，请不要在 HP-UX 端点上的密码中使用 @ 符号。

HP-UX 不支持完全限定域名登录

在 HP-UX 上有效

您无法使用完全限定域名（例如：`user@domain`）登录到 HP-UX 主机。

服务器组件已知问题

本节介绍了 CA Access Control 服务器组件（CA Access Control 端点管理、CA Access Control 企业管理 和企业报告）的已知问题。

由于时间同步导致特权帐户发现过程未完成

症状：

我运行帐户发现向导，得到的特权帐户列表不完整。

解决方案：

如果在企业管理服务器、分发服务器或 CA Access Control 端点之间存在时间差异，可能会发生该问题。要解决此问题，请从支持网站下载发布修正（编号：RO47404）。

在升级之后 PUPM 报告缺少批准的请求历史记录

症状：

在将企业管理服务器升级到 r12.6.01 之后，下列报告缺少批准的请求历史记录：特权帐户请求（按批准人）、特权帐户请求（按端点）和特权帐户请求（按请求人）。

解决方案：

要解决此问题，请下载已发布的修正 RO47416。要部署发布修正，请遵照即时修正中所含自述文件中的说明。

使用针对 PUPM 端点类型的 CA Access Control 管理 CA Access Control 端点所需的即时修正

在 Linux 上有效

症状:

我在 Linux 上安装了企业管理服务器，并试图使用针对 PUPM 端点类型的 CA Access Control，在 CA Access Control 端点上发现特权帐户。发现过程无法检测到管理员帐户。

解决方案:

要解决此问题，请在企业管理服务器上安装发布修正 RO47411。要部署即时修正，请遵照即时修正中所含自述文件中的说明。

打开的会话不支持 Telnet 会话

在 Windows 上有效

打开的会话不会检测和识别 Telnet 会话是登录。Windows 打开的会话不支持 Telnet 会话。

仅在 Windows Agentless 端点类型上支持与 PUPM 的登录集成

在 Windows Agentless 端点上有效

仅在 Windows Agentless 端点上且当类 Regval 在目标端点上已禁用时，才支持 CA Access Control 与 PUPM 的登录集成。

未批准的特权帐户请求在升级之后不保留

症状:

当我执行特权帐户请求并在批准请求之前升级 CA Access Control 时，在升级之后会收到空指针异常。

解决方案:

在批准特权帐户请求之后执行升级。

内存不足错误：超出 GC 使用限制

在 UNIX 上有效

如果未适当配置系统或无用收集设置，那么以下错误消息会在 JBoss 服务器日志中出现：

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

要解决此问题，请执行以下操作：

1. 停止 JBoss 应用程序服务器。
2. 导航到下列目录，其中 JBOSS_HOME 表示您安装 JBoss 的目录：

```
JBOSS_HOME\bin
```

3. 编辑 run_idm.bat 文件。
4. 找到 JAVA_OPTS 环境变量并添加以下参数：

```
" -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled  
-XX:+UseConcMarkSweepGC %JAVA_OPTS%"
```

5. 保存文件并退出。
6. 启动 JBoss 应用程序服务器。

示例：JAVA_OPTS 变量

在您添加新的参数之后，下列示例显示 JAVA_OPTS 变量：

```
set JAVA_OPTS=-Djava.security.policy=. \workpoint_client.policy -Xms512m  
-Xmx1024m -XX:MaxPermSize=256m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled  
-XX:+UseConcMarkSweepGC %JAVA_OPTS%
```

未配置默认的请求批准人

在 SunOne 上有效

如果使用 SunOne 用户目录，您需要配置默认的请求批准人。应定义要向其提交所有特权帐户密码请求的请求批准人。

要配置默认的请求批准人，请执行以下操作：

1. 以系统管理员身份登录到 CA Access Control 企业管理。
2. 依次选择“用户和组”、“任务”和“修改管理任务”。
将打开“修改管理任务: 搜索管理任务”窗口。
3. 在“名称”字段中输入特权帐户请求，然后单击“搜索”。
CA Access Control 企业管理 将显示符合搜索条件的结果。
4. 选择“特权帐户请求”，然后单击“选择”。
将打开“修改管理任务: 特权帐户请求”窗口。
5. 导航到“事件”选项卡并选择工作流进程。
将打开“工作流进程”屏幕。
6. 在“默认批准人”部分中，选择“添加用户”。
将打开“选择用户”屏幕。
7. 输入要分配为默认批准人的用户的名称，然后选择“搜索”。
CA Access Control 企业管理 将显示符合搜索条件的结果。
8. 单击“选择”。
您选择的用户将添加为默认的请求批准人。
9. 单击“确定”退出。

注意：您定义的默认请求批准人不适用于您在安装企业管理服务器之前创建的用户。适用于之前存在于用户目录中的用户的默认请求批准人是超级管理员。

运行批处理操作时出现“配置的阻止超时时间范围内没有可用的受管连接”错误消息

运行批处理任务时收到“配置的阻止超时时间范围内没有可用的受管连接”错误消息。例如：您试图在大型组或多个帐户上运行自动重置密码任务。该错误消息表示 JBoss 应用程序服务器已用尽可用连接，无法完成任务。

要解决此问题，您需要在池中增加可用连接的数量：

1. 停止 JBoss 应用程序服务器。
2. 导航到以下目录，其中 *JBoss_HOME* 表示 JBoss 的安装目录：

```
JBoss_HOME/server/default/deploy/
```

3. 打开 *imtaskpersistencedb-ds.xml* 文件进行编辑。
4. 找到 `<max-pool-size>` 标记并将其值设置为 40。
5. 找到 `<idle-timeout-minutes>` 标记并将其值设置为 1。
6. 注释掉 (`<!--`) `<blocking-timout-millis>` 标记，如下所示：

```
<!--blocking-timeout-millis>5000</blocking-timeout-millis-->
```

7. 保存并关闭文件。
8. 启动 JBoss 应用程序服务器。

您已在池中增加了可用连接的数量。现在可以运行任务了。

JBoss for Windows 示例策略部署失败

JBoss for Windows 示例策略在端点上部署失败。策略部署进程终止，并显示一个内部错误消息，指出已存在 PROGRAM 资源。

要解决此问题，请使用 JBoss 示例策略并在部署该策略以明确创建 PROGRAM 资源之前修改该策略。

在 CA Access Control 企业管理 中查看策略管理报告时显示错误消息

视图查看策略管理报告时，CA Access Control 企业管理 显示任务失败的消息。

要解决此问题，请重新启动 JBoss 应用程序服务器和 CA Business Intelligence 服务器（报告门户）。

未定义密码的 CA Access Control 用户无法登录到 CA Access Control 企业管理 服务器

没有密码的 CA Access Control 用户帐户无法登录到 CA Access Control 企业管理 服务器。

访问角色在 CA Access Control 企业管理 中不受支持

定义管理角色规则时，请选择属于管理角色成员的用户。CA Access Control 企业管理 不支持访问角色。界面中不应显示访问角色选项。

修改 UNAB 主机或主机组时出现“无需任何操作”消息

修改 UNAB 主机或主机组设置并提交所做的更改时，CA Access Control 企业管理 会显示以下消息：“无需任何操作”。虽然此消息表示无需采取任何操作，但您对 UNAB 主机或主机组所做的修改均已应用。

控制字符可能会导致应用程序异常

CA Access Control 数据库中的控制字符可能会导致应用程序异常或在 CA Access Control 端点管理 和 CA Access Control 企业管理 中无法正常工作。

用户界面中出现无法理解的字符

症状:

我登录到 CA Access Control 企业管理 用户界面时，看见无法理解的字符。

解决方案:

导致此问题的原因是您使用的数据库实例不能完全支持 UTF8 国际字符集。要更正此问题，必须在完全国际化的数据库实例上重新安装 CA Access Control 企业管理。

无法更改受监控文件的托管属性

在 CA Access Control 端点管理 中，当您试图保存更改时，无法清除受监控的文件 (SECFILE) 资源的“审核”选项卡上的“托管”复选框。

要解决此问题并更改该资源属性，请使用 `selang`。

创建大型策略时 CA Access Control 企业管理 超时

创建包含 6000 条以上命令的策略时，CA Access Control 企业管理 用户界面会超时。直到 CA Access Control 企业管理 创建策略后，您才能在用户界面中继续工作。要解决此问题，请从新的浏览器登录到 CA Access Control 企业管理，以打开新的会话。

无法部署末尾字符为反斜杠的策略

根据 `selang` 约定，您可以使用反斜杠字符 (`\`) 作为命令行的最后一个字符，以表明命令延续到下一行。这不受高级策略管理的支持。请确保策略命令不跨越多行。

注意： CA Access Control 提供的以下示例策略的末尾字符为反斜杠：`_AC_WEBSERVICE`、`_APACHE`、`_JBOSS`、`_MS_SQL_SERVER` 和 `_ORACLE`。

策略脚本验证错误消息以其他语言显示

在 CA Access Control 企业管理 中有效

如果策略部署出错，在 CA Access Control 企业管理 中看到的 `selang` 结果消息将以企业管理服务器上 CA Access Control 端点的安装语言显示，而不是以 CA Access Control 企业管理 的安装语言显示。

要使这些消息以本地化语言显示，必须在安装 CA Access Control 企业管理 前，在企业管理计算机上以所需的本地化语言安装 CA Access Control 端点。

无法查看名称超过 30 个字符的终端的审核记录

如果终端名称字符超过 30 个，您将无法查看审核记录。当在 Windows 计算机上运行的 CA Access Control 端点管理 管理 UNIX 端点时，将发生这种情况。

管理 PMDB 时不显示 PMDB 审核记录

使用 CA Access Control 端点管理 管理 PMDB 时，无法查看 PMDB 的审核记录。

要解决此问题并查看 PMDB 审核记录，请连接到 PMDB 所在的主机。

为网络设备打开的会话失败

如果特权帐户名称包含十个以上的字符，为网络设备打开的会话会失败。

PUPM 端点类型的 Access Control 出现“无此方法”或“无法重置密码”错误消息

在 Linux 上有效

在 Linux 计算机上安装企业管理服务器期间，当您为 PUPM 端点定义 Access Control 时，会收到“无此方法”错误消息。

如果指定 CA Access Control 企业管理在签入时重置特权帐户密码，则当用户在 PUPM 端点的 Access Control 上签入特权帐户时，会收到“无法重置密码”错误消息。

遵循这些步骤：

1. 停止 Java 连接器服务器。请执行以下操作：

- a. 导航到以下目录，其中 *ACServerInstallDir* 是安装企业管理服务器的目录：

```
ACServerInstallDir/Connector_Server/bin
```

- b. 运行以下命令：

```
./im_jcs stop
```

Java 连接器服务器停止。

2. 打开 im_jcs 脚本进行编辑。
3. 从脚本中找到并删除以下行：

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

4. 复制以下行并将其粘贴到脚本中：

```
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`
```

重要说明！ 在将该行粘贴到脚本之后，请删除此行中的回车。

5. 保存文件。
6. 启动 Java 连接器服务器。

```
./im_jcs start
```

Java 连接器服务器将启动。现在您可以为 PUPM 端点类型配置 Access Control。

升级之后在 Solaris 上不支持 Telnet 自动登录

在 Solaris 上有效

当前，升级到 CA Access Control r12.6 之后，在 Solaris 上不支持 Telnet 自动登录。

升级之后，自定义参与人确定程序已删除

升级到 CA Access Control r12.6 之后，删除您配置的自定义参与人确定程序。

建议您在升级到 CA Access Control r12.6 之前记录下自定义参与人确定程序，一旦完成升级，重新创建他们。

不会发现对 Windows 服务和排定任务所做的更改

在 Windows Server 2003 上有效

症状:

在您更改 Windows 服务或 Windows 排定任务时，无法发现这些更改。

解决方案:

这是一个已知的 Microsoft 问题。您在端点上更改服务或任务之后，删除现有的密码使用方。使用服务帐户发现向导来创建密码使用方。

批准服务帐户密码请求失败

在提交服务帐户密码请求后，该请求未发送给请求批准人，因此无法签出服务帐户密码。

没有与 JDBC 密码使用方执行密码检索相对应的审核记录

当 JDBC 密码使用方从 CA Access Control 企业管理 获取密码时，企业管理服务器不写入审核记录。

使用自动登录登录到 Oracle 企业管理器时出现错误消息

在 Oracle 上有效

在签出管理员帐户密码之后，使用自动登录选项登录到 Oracle 企业管理器时，会出现错误消息。如果最后一个会话是在未注销的情况下通过关闭浏览器窗口终止的，将出现该错误消息。

端点提示输入密码时远程桌面连接失败

在 **Windows** 上有效

如果端点的终端服务设置配置为在登录时始终提示输入密码，则 **Windows** 远程桌面自动登录脚本无法登录到端点。

PUPM 接受已关闭 CA Service Desk 票单的票单号

适用于与 **CA Service Desk** 的集成

如果在请求访问特权帐户时指定了已关闭的 **CA Service Desk** 问题或请求票单（票单类型为 **iss** 或 **cr**）的编号，**CA Access Control** 企业管理 会将请求转发给批准人。

无法指定 CA Service Desk 更改顺序票单号

适用于与 **CA Service Desk** 的集成

如果在请求访问特权帐户时指定了 **CA Service Desk** 更改顺序票单（票单类型为 **ch**）的编号，**CA Access Control** 企业管理 不会将请求转发给批准人。

文档已知问题

本节介绍了 **CA Access Control** 文档集的已知问题。

SDK 指南中的图形没有备用文本

SDK 指南中的图形没有备用文本。SDK 指南首次是随以前版本的 **CA Access Control** 一起发行的，并与 **CA Access Control r12.5** 文档一起提供。

PDF 文档需要 Adobe Reader 7.0.7

要以打印格式（PDF 文件）阅读 **CA Access Control** 文档，您必须安装 **Adobe Reader 7.0.7** 或更高版本。如果您的计算机中尚未安装 **Adobe Reader**，可从 **Adobe** 网站下载。

注意： **Adobe Reader** 在 **HP-UX Itanium (IA64)** 和 **Red Hat Linux Itanium IA64** 上不可用。

附录 A: Third-Party License Agreements

此部分包含以下主题:

[Software Under the Apache License](#) (p. 90)
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[AES 2.4](#) (p. 108)
[AIX JRE 1.4.2](#) (p. 109)
[AIX JRE 1.5.0](#) (p. 109)
[ANTLR 2.7.5H3](#) (p. 110)
[CPAN Perl 5.8.8](#) (p. 111)
[CRC32](#) (p. 112)
[Cyrus SASL 2.1.22](#) (p. 114)
[dom4j 1.5](#) (p. 117)
[Hibernate 3.2](#) (p. 119)
[ICU4C 3.4](#) (p. 120)
[JBoss 4.0.1 SP1](#) (p. 121)
[JBoss Application Server v.4.2.3](#) (p. 122)
[JBoss Native v.2.0.6](#) (p. 123)
[JDOM 1.0](#) (p. 124)
[MD5 Message Digest Algorithm](#) (p. 127)
[MIT Kerberos v5 r1.5](#) (p. 129)
[nss ldap 2.62](#) (p. 152)
[Oracle JDBC Driver 10g Release 2 \(10.2.0.1.0\)](#) (p. 159)
[PCRE 6.3](#) (p. 165)
[Rhino 1.6r4](#) (p. 167)
[SAXPath 1](#) (p. 168)
[SHA-1](#) (p. 171)
[Sun JDK 1.4.2 13](#) (p. 172)
[Sun JDK 1.6.0](#) (p. 183)
[Sun JRE 1.5.0 18](#) (p. 197)
[XNTP v.3-5.93](#) (p. 211)
[XScreenSaver](#) (p. 212)
[Zlib 1.2.3](#) (p. 212)
[ZThread 2.3.2](#) (p. 213)

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- Ant 1.6.5
- Axis 1.2.1
- Axis 1.4
- Axis2 1.1.1
- Commons BeanUtils 1.6.1
- Commons BeanUtils 1.7
- Commons Codec 1.3
- Commons Collection 3.1
- commons dbcp 1.2.1
- Commons Digester 1.7
- commons discovery 0.2
- commons el 1.0
- Commons FileUpload 1.2
- Commons httpclient 2.0.2

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- Commons Lang 2.1
- Commons Logging 1.0.4
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- HTTP Web Server 2.0.54
- HTTP Web Server 2.2.3
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- Struts 1.2.9

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- Tomcat 5.5.12

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- Xalan-C 1.9.0

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- Xalan-J 2.7.0

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- Xerces-C++ 2.6.0

- Xerces-C++ 2.7.0

- Xerces-C++ 2.8.0

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Apache License

Version 2.0, January 2004

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Rivest

[Page 8]

RFC 1321

MD5 Message-Digest Algorithm

April 1992

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Kerberos Version 5, Release 1.5.3

Release Notes

The MIT Kerberos Team

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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 xzpf 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`:

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

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).

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You may view bug reports by visiting

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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.

krb5-1.5.1 changes by ticket ID

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

<http://krbdev.mit.edu/rt/NoAuth/krb5-1.5/fixes-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 vulnerabilities
- 4137 ksu spuriously fails when exiting shell when ksu-ing to non-root
- 4168 clean up mkrel patchlevel.h editing etc.

Major changes in 1.5

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 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.

- 581 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 rcache 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 -l/usr/include
- 3013 Man pages for fakeka and krb524init
- 3014 texinfo variable fixes, info dir entries
- 3030 Bug report: Kinit has no support for addresses in credentials. Kinit -a is not enabled.
- 3065 Implement RFC 3961 PRF
- 3086 [Sergio Gelato] Bug#311977: libkrb53: gss_init_sec_context sometimes 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
principal 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_preferance_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.
- 3687 initialize cc_version to 0 not NULL
- 3688 Added CoreFoundation bundle plugin support
- 3689 build kadm5 headers in generate-files-mac target
- 3690 build rpc includes in generate-files-mac target.
- 3697 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_etypes 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 gld --as-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
- 3923 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
- 3925 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
- 3970 test kdb5_util dump/load functionality in dejagnu
- 3972 make gss_unwrap match prototype
- 3974 work around failure to load into nonexistent db

Known bugs by ticket ID:

Listed below are the RT tickets for known bugs in krb5-1.5. Please
see

<http://krbdev.mit.edu/rt/NoAuth/krb5-1.5/bugs-1.5.html>

for an up-to-date list, including links to the complete tickets.

3947 allow multiple calls to `krb5_get_error_message` to retrieve message

3956 gssapi compilation errors on Windows

3973 `kdb5_util` load now fails if db doesn't exist [workaround]

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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
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lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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nss_ldap 2.62

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Oracle JDBC Driver 10g Release 2 (10.2.0.1.0)

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