

# CA ControlMinder

## 版本说明

12.7





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## 第三方通知

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

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## CA Technologies 产品引用

本文档引用以下 CA Technologies 产品：

- CA ControlMinder
- 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 用户活动报告)
- CA IdentityMinder

## 文档约定

CA ControlMinder 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
<b>粗体</b>	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
用大括号括起来 ({ })	强制运算符集

格式	含义
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。  <b>注意：</b> 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 ControlMinder 文档使用以下文件位置约定：

- *ACSharedDir*—CA ControlMinder for UNIX 使用的默认目录。
  - UNIX—/opt/CA/AccessControlShared
  - Windows—\ProgramFiles\CA\AccessControlShared
- *ACServerInstallDir*—默认 CA ControlMinder 企业管理 安装目录。
  - UNIX—/opt/CA/AccessControlServer
  - Windows—\ProgramFiles\CA\AccessControlServer

- *DistServerInstallDir*—默认分发服务器安装目录。
  - UNIX—/opt/CA/DistributionServer
  - Windows—\ProgramFiles\CA\DistributionServer
- *JBoss\_HOME*—默认 JBoss 安装目录。
  - UNIX—/opt/jboss-4.2.3.GA
  - Windows—\jboss4.2.3.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>。

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# 第 1 章： 欢迎

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欢迎使用 CA ControlMinder 12.7。本指南说明了新的增强、对现有功能所做的更改、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 ControlMinder 的已知问题。

CA ControlMinder 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 ControlMinder。

此部分包含以下主题：

[CA ControlMinder 安装介质](#) (p. 11)

[补充的 CA User Activity Reporting Module 许可](#) (p. 12)

[单个文档集](#) (p. 12)

## CA ControlMinder 安装介质

可从以下光盘上获取 CA ControlMinder 组件。

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 ControlMinder 服务器组件

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

CA ControlMinder 企业管理 包括 CA ControlMinder 端点管理、适用于 Windows 的 CA ControlMinder 端点组件、CA ControlMinder 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 ControlMinder 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 ControlMinder 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 ControlMinder 服务器组件  
包含 CA ControlMinder 端点管理、CA ControlMinder 分发服务器和 CA ControlMinder 企业管理 的安装文件。  
CA ControlMinder 企业管理 包括 CA ControlMinder 端点管理、适用于 Linux 的 CA ControlMinder 端点组件、CA ControlMinder 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 ControlMinder 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 ControlMinder 服务器组件。

## 补充的 CA User Activity Reporting Module 许可

作为 CA ControlMinder 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 ControlMinder 审核日志。首先，必须获得“CA User Activity Reporting Module Server for CA ControlMinder”的许可（代码为 ELMSAC99100/ELMSAC991），该许可是以象征性的价格提供给 CA ControlMinder 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 ControlMinder 下载链接下）上的下载中心在线下载 CA User Activity Reporting Module。

## 单个文档集

以下内容说明 CA ControlMinder 的文档：

- 版本说明
- 实施指南
- 企业管理指南
- 升级指南
- 实施指南
- 端点管理指南：用于 Windows
- 端点管理指南：用于 UNIX

- 参考指南
- selang 参考指南
- 故障排除指南



## 第 2 章： 新增功能与经过更改的功能

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此部分包含以下主题：

[CA ControlMinder 增强功能](#) (p. 15)

[文档增强功能](#) (p. 16)

[此版本中已解决的问题](#) (p. 16)

### CA ControlMinder 增强功能

以下为自最新版本以来所做的 CA ControlMinder 增强和修正：

- **可伸缩性和性能**

现在 CA ControlMinder 会在更短的时间内执行通用任务。产品现在支持 100,000 个端点和帐户。有关详细信息，请参阅“范围和性能”。

- **报告增强功能**

现在 CA ControlMinder 在几小时内可从每个产品组件生成工作负载分区报告。七个新报告已添加到产品。有关详细信息，请参阅“创建报告”。

- **屏幕面板增强功能**

已为主机、主机组、策略以及共享帐户在 UI 全局查看屏幕中添加了各种视图。

- **REST API**

通过增加其他方式来增强 REST 的产品支持。您现在可以使用 REST API 检索特定用户可以访问的帐户列表，管理帐户和端点等等。有关详细信息，请参阅“REST API”部分。

- **新增 SetPUTTY 选项**

您现在可以使用产品自定义 PUTTY 和 Telnet 脚本。

- **增强登录应用程序**

产品现在支持 MS SQL、Oracle、Juniper Netscreen 以及 FTP 登录应用程序。

- **带有 SSH 和网络设备 XML 文件的端点类型**

使用其他 SSH 和网络设备 XML 文件使 SAM（共享帐户管理）端点类型得到增强。

- **Windows 8 支持**

您现在可以将 Microsoft Windows 8 配置为 SAM 端点。

## 文档增强功能

以下为自最新版本以来所做的文档增强：

- **基于方案的内容**

已添加以下方案：

- 如何配置基于证书的身份验证

基于证书的身份验证增强了身份验证能力，在没有提供每个登录的登录凭据的情况下允许用户登录。

- 针对集成的 Windows 身份验证配置企业管理服务器

集成的 Windows 身份验证 (IWA) 使用来自用户 Windows 会话的域帐户凭据启用用户登录到 CA ControlMinder 企业管理。

- 如何配置 Apache 负载均衡器

负载均衡在增加网络使用和可靠性的多个资源之中，均匀分发任务。

## 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 ControlMinder 最新维护版本](#) 页面中访问此修复列表。

## 第 3 章： 系统要求

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此部分包含以下主题：

[支持的操作系统](#) (p. 17)

[企业管理服务器要求](#) (p. 17)

[企业管理服务器集成组件](#) (p. 18)

[CA ControlMinder 端点管理 要求](#) (p. 19)

[企业报告要求](#) (p. 19)

[分发服务器要求](#) (p. 20)

[策略模型数据库要求](#) (p. 20)

### 支持的操作系统

有关支持的操作系统的列表，请参阅“CA ControlMinder 兼容性列表”（可从 [CA 支持](#) 的 CA ControlMinder 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**—4 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：**您可以在其他计算机上安装中央数据库。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：**您不需要在安装有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：**您不需要在安装有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：**您不需要在安装有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 User Activity Reporting Module—r12.0**  
**注意：**请不要在安装有企业管理服务器的同一计算机上安装此软件。有关 CA User Activity Reporting Module 系统要求的信息，请参阅《*CA User Activity Reporting Module 版本说明*》。
- **CA Service Desk—r12.1**  
**注意：**您不需要在安装有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 SiteMinder**  
有关 CA SiteMinder 的系统要求信息，请参阅《*CA SiteMinder 版本说明*》。

## CA ControlMinder 端点管理 要求

CA ControlMinder 端点管理 计算机的最低要求如下：

**处理器** — (Windows) Pentium PC 2.66 GHz

- **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 ControlMinder 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 ControlMinder**— 最新版本的端点安装

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 ControlMinder 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

## 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 ControlMinder 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

## 第 4 章： 文档

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此部分包含以下主题：

[指南](#) (p. 21)

### 指南

CA ControlMinder 12.7 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 ControlMinder 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 ControlMinder 指南，并且可从各种基于 Web 的界面访问联机帮助。



# 第 5 章： FIPS 遵从性

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此部分包含以下主题：

[FIPS 操作模式](#) (p. 23)

[仅 FIPS 模式所不支持的操作系统](#) (p. 23)

[FIPS 加密存储库](#) (p. 23)

[使用的 FIPS 算法](#) (p. 24)

[密钥和证书的存储](#) (p. 24)

[受影响的功能 \(UNIX\)](#) (p. 24)

[受影响的功能 \(Windows\)](#) (p. 26)

## FIPS 操作模式

CA ControlMinder 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 ControlMinder 仅使用那些遵从 FIPS 140-2 的加密功能。这意味着某些 CA ControlMinder 功能在仅 FIPS 模式中是禁用的。在常规模式中，CA ControlMinder 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 ControlMinder 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 ControlMinder 使用 CAPKI 加密存储库。在 UNIX 系统中，CA ControlMinder 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 ControlMinder 还使用 CAPKI 4.1.2 加密存储库。

## 使用的 FIPS 算法

CA ControlMinder 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 ControlMinder 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 CAPKI) — 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 ControlMinder 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 ControlMinder 进行保护。

**注意:** CA ControlMinder 通过使用 CA ControlMinder 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 ControlMinder 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 ControlMinder 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 ControlMinder 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
SAM 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 SAM 代理。

## 受影响的功能 (Windows)

FIPS 操作模式可能对以下 CA ControlMinder 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 ControlMinder 内部 SHA-1 签名	仅限 CAPKI SHA-1 签名
报告代理	已启用	已禁用
SAM 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 SAM 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 ControlMinder 将无法解密旧密码。



## 第 6 章： 功能支持限制

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此部分包含以下主题：

[SAM 限制](#) (p. 29)

### SAM 限制

本节介绍了 SAM 端点和服务器组件的功能支持限制。

### SAM 不符合 FIPS140-2 和 IPV6 标准

目前，SAM 不符合 FIPS140-2 和 IPV6 标准。



# 第 7 章： 安装注意事项

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此部分包含以下主题：

[仅服务器组件版本](#) (p. 31)

[服务器组件安装注意事项](#) (p. 31)

## 仅服务器组件版本

此版本的 CA ControlMinder 仅包含企业管理服务器组件。

## 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 ControlMinder 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 ControlMinder 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 ControlMinder 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 ControlMinder 企业管理时，必须在系统提示您插入 CA ControlMinder 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 ControlMinder 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 ControlMinder 企业管理安装期间，如果当 CA ControlMinder 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 ControlMinder 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 ControlMinder 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 ControlMinder 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 ControlMinder 端点管理 安装说明适用于 CA ControlMinder 的两个版本

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

## CA ControlMinder 端点管理 快捷方式指向端口号 8080

默认情况下，CA ControlMinder 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 ControlMinder DVD（而非 ProductExplorer）运行 CA ControlMinder 端点管理 安装程序。

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

```
install_EM.exe -DJB055_PORT=<18080>
```

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

## CA 用户活动报告 仅支持可靠 SSL 连接

定义 CA 用户活动报告 服务器的连接设置时，也定义了 SSL 连接设置。CA 用户活动报告 不支持非 SSL 连接。

**注意：**有关与 CA 用户活动报告 集成的更多信息，请参阅《*实施指南*》。

## 从 CA ControlMinder 企业管理 查看 CA 用户活动报告 报告所需的特殊订阅

要从 CA ControlMinder 企业管理 界面查看 CA ControlMinder 企业管理 报告，请对 CA 用户活动报告 服务器应用特殊订阅更新。

### 应用订阅更新

1. 在 CA 用户活动报告 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 用户活动报告。

现在您可以从 CA ControlMinder 企业管理 查看 CA 用户活动报告 报告。

## 同步 CA ControlMinder 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 ControlMinder 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 ControlMinder 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 ControlMinder 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 8 章： 升级注意事项

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此部分包含以下主题：

[服务器组件升级注意事项](#) (p. 35)

## 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 ControlMinder 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 r12.7 不保留角色和任务

将企业管理服务器升级到 12.7 时，不会保留升级之前已创建的角色和任务。

企业管理服务器仅保留成员资格策略。

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

如果您正在使用 CA ControlMinder 12.7 服务器来管理 CA ControlMinder r12.5 或 r12.0.01 端点的策略模型，那么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。

### 在端点上部署策略所需的软件修补程序

要从 CA ControlMinder 企业管理 r12.6 部署 CA ControlMinder 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。



## 第 9 章： 一般注意事项

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此部分包含以下主题：

[服务器组件注意事项](#) (p. 37)

### 服务器组件注意事项

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

#### CA ControlMinder 组件与 CA ControlMinder 消息队列之间的通讯问题

以下 CA ControlMinder 组件依靠与 CA ControlMinder 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
- SAM 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 ControlMinder 组件。

## Oracle 升级

执行 Oracle 数据库升级之前，请执行以下步骤并在 Oracle 上运行注释命令：

1. 从命令行打开 SQLPLUS
2. 连接到数据库。
3. 以系统或 sysdba 用户身份登录。
4. 运行以下命令：

```
GRANT EXECUTE ON SYS.DBMS_CRYPT0 TO vpm20;  
GRANT UNLIMITED TABLESPACE TO vpm20;  
ALTER SYSTEM SET transactions=275 SCOPE=SPFILE;  
ALTER SYSTEM SET sessions=250 SCOPE=SPFILE;  
ALTER SYSTEM SET processes=200 SCOPE=SPFILE;
```

## CA ControlMinder 主机名限制

CA ControlMinder 端点的主机名不得超过 15 个字符。如果 CA ControlMinder 计算机的主机名超过 15 个字符，您将无法使用 CA ControlMinder 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 ControlMinder 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 SAM 端点 NetBIOS 名称而非 DNS 域名

在 CA ControlMinder 企业管理 中创建 SAM 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，SAM 自动登录等高级功能将失败。

## 使用登录应用程序脚本登录到域成员

### 症状:

在我登录到使用 CA ControlMinder 端点管理 登录应用程序脚本的域成员的服务器时，我可以登录到 FTP，但是 FTP 用户命令表示“未连接”。

### 解决方案:

FTP 和 PuTTY 不支持域用户。您无法使用自动登录应用程序脚本启用 FTP 和 PuTTY 自动用户登录到为域成员的服务器。要签出密码以便使用 FTP 或 PuTTY 登录到域成员服务器，请创建新的自动登录脚本。

### 遵循这些步骤:

1. 找到服务器上的 FTP 或 PuTTY 脚本。
2. 复制 FTP 或 PuTTY 脚本。
3. 创建基于现有脚本的其他登录应用程序脚本。
4. 使用完整用户名和域属性修改脚本，如下所示:

```
userName = "#userName#"
userDomain = "#userDomain#"
password = "#password#"
serverName = "#host#"
fullUserName = userDomain & "\" & username
Set pupmObj = CreateObject("ACLauncher.ACWebLauncher")
hwnd = pupmObj.LaunchPUTTY(serverName, fullUserName,
password)
```

5. 将新的登录应用程序分配给端点。

有关自动登录应用程序脚本的更多信息，请参阅“SAM 自动登录应用程序 Visual Basic 脚本”。

## 最多可以配置一个 CA IdentityMinder 置备连接器服务器

在 CA ControlMinder 企业管理 中最多可以配置一个 CA IdentityMinder 置备连接器服务器。

## 无法使用 SSL 端口配置 CA IdentityMinder 置备连接器服务器

配置 CA IdentityMinder 置备连接器服务器时，请不要指定 CA IdentityMinder 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 SAM 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 SAM 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 SAM 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 ControlMinder 企业管理中将 SQL Server 端点定义为密码使用方并从 SAM 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。

## 要求的 Oracle11g 服务器证书

要连接到 Oracle 11g 服务器，您必须在端点上安装服务器证书。

**注意：**您可以通过从 Oracle 服务器中删除 SSL 限制，在没有 SSL 的情况下连接到服务器。

# 第 10 章： 已知问题

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此部分包含以下主题：

[安装已知问题](#) (p. 41)

[已知升级问题](#) (p. 41)

[一般已知问题](#) (p. 41)

## 安装已知问题

本节介绍了 CA ControlMinder 组件的安装已知问题。

## 已知升级问题

本节介绍了 CA ControlMinder 组件的升级已知问题。

## 一般已知问题

本节介绍了 CA ControlMinder 组件的一般已知问题。

## 服务器组件已知问题

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

## 特权帐户请求和夏令时 (DST)

如果企业管理服务器或者请求人处于夏令时 (DST)，那么以下内容会在提交特权帐户请求时发生：

- 如果企业管理服务器处于夏令时时间而请求人不是在夏令时，那么请求的时段会晚于最初请求一小时。
- 如果企业管理服务器不处于夏令时时间而请求人是在夏令时，那么请求的时段会早于最初请求一小时。

## 在查看已记录会话中搜索

在您单击“查看”以搜索 CA ControlMinder 端点管理 “已记录会话”选项卡中的查看已记录会话时，会发生以下已知问题：

- 在您搜索活动日志包含时（默认），不显示任何要结果或消息。
- 在您搜索用户 ID 或登录 ID 时，“用户名”字段显示 n\a/n\a。

## 打开的会话在 iOS 5 中不起作用

由于 iOS 的问题，打开的会话在 iOS 5 中不起作用。在 iOS 选择打开会话的命令也返回关闭的会话。

## PMDB 名称超过 25 个字符时不列出 PMDB 订户

### 症状：

如果使用超过 25 个字符创建 PMDB，那么其订户不会在使用端点管理用户界面查看时列出。

### 解决方案：

这是端点管理用户界面的已知问题。使用 `sepmdb` 实用程序查看订户列表。该命令使用以下格式：

```
sepmdb -l pmd
```

```
-l
```

列出策略模型的订户。

```
pmd
```

指定策略模型的名称。

## 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。

## 未配置默认的请求批准人

### 在 SunOne 和 CA Directory 上有效

如果您使用 SunOne 或 CA Directory 用户目录，请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。

#### 遵循这些步骤:

1. 以系统管理员身份登录到 CA ControlMinder 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 ControlMinder 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 ControlMinder 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-timeout-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 ControlMinder 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 ControlMinder 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 ControlMinder 用户无法登录到 CA ControlMinder 企业管理 服务器

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

## 访问角色在 CA ControlMinder 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 ControlMinder 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 ControlMinder 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 ControlMinder 数据库中的控制字符可能会导致应用程序异常或在 CA ControlMinder 端点管理 和 CA ControlMinder 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 ControlMinder 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 ControlMinder 企业管理。

## 无法更改受监控文件的托管属性

在 CA ControlMinder 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 ControlMinder 企业管理 超时

创建包含 6000 条以上命令的策略时，CA ControlMinder 企业管理 用户界面会超时。直到 CA ControlMinder 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 ControlMinder 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 ControlMinder 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 ControlMinder 企业管理 中有效

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

## SAM 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 SAM 端点定义 Access Control 时，会收到“无此方法”错误消息。

如果指定 CA ControlMinder 企业管理在签入时重置特权帐户密码，则当用户在 SAM 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 SAM 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

在您升级到 CA ControlMinder 12.7 之后，Solaris 不支持 Telnet 自动登录。

## 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 ControlMinder 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。

## SAM 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 ControlMinder 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 ControlMinder 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 ControlMinder 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 ControlMinder 一起发行的，并与 CA ControlMinder 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 ControlMinder 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**

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此部分包含以下主题:

[Software Under the Apache License](#) (p. 53)  
[Software Under the Daniel Veillard License](#) (p. 60)  
[Software Under the OpenLDAP License](#) (p. 62)  
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## Cyrus SASL 2.1.22

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 *
 * Rob Earhart
 *
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 *
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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

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 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).

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

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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

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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/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 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/fixes-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  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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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\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_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\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/ipropr\_hdr.h  
kadmin/server/iproprd\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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## nss\_ldap 2.62

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