

CA Access Control for Virtual Environments

릴리스 정보

r2.0



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본건 문서의 사본 인쇄 또는 제작 권한은 해당 소프트웨어의 라이선스가 전체 효력을 가지고 유효한 상태를 유지하는 기간으로 제한됩니다. 어떤 사유로 인해 라이선스가 종료되는 경우, 귀하는 서면으로 문서의 전체 또는 일부 복사본이 CA 에 반환되거나 파기되었음을 입증할 책임이 있습니다.

CA 는 관련법의 허용 범위 내에서, 상품성에 대한 묵시적 보증, 특정 목적에 대한 적합성 또는 권리 위반 보호를 비롯하여(이에 제한되지 않음) 어떤 종류의 보증 없이 본 문서를 "있는 그대로" 제공합니다. CA 는 본 시스템의 사용으로 인해 발생하는 직, 간접 손실이나 손해(수익의 손실, 사업 중단, 영업권 또는 데이터 손실 포함)에 대해서는 (상기 손실이나 손해에 대해 사전에 명시적으로 통지를 받은 경우라 하더라도) 귀하나 제 3 자에게 책임을 지지 않습니다.

본건 문서에 언급된 모든 소프트웨어 제품의 사용 조건은 해당 라이선스 계약을 따르며 어떠한 경우에도 이 문서에서 언급된 조건에 의해 라이선스 계약이 수정되지 않습니다.

본 문서는 CA 에서 제작되었습니다.

본 시스템은 "제한적 권리"와 함께 제공됩니다. 미합중국 정부에 의한 사용, 복제 또는 공개는 연방조달규정(FAR) 제 12.212 조, 제 52.227-14 조, 제 52.227-19(c)(1)호 - 제(2)호 및 국방연방구매규정(DFARS) 제 252.227-7014(b)(3)호 또는 해당하는 경우 후속 조항에 명시된 제한 사항을 따릅니다.

Copyright © 2011 CA. All rights reserved. 본 시스템에서 언급된 모든 상표, 상호, 서비스 표시 및 로고는 각 해당 회사의 소유입니다.

타사 고지 사항

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

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샘플 스크립트와 샘플 SDK 코드

CA Access Control 제품에 포함된 샘플 스크립트와 샘플 SDK 코드는 정보 제공 목적으로만 "있는 그대로" 제공됩니다. 이 항목은 특정 환경에 맞게 수정이 필요할 수 있으며, 프로덕션 환경에 사용하려면 프로덕션 시스템에 배포하기 전에 반드시 테스트 및 검사를 수행해야 합니다.

CA Technologies 는 이러한 샘플에 대한 지원을 제공하지 않으며 이 스크립트로 인한 어떠한 오류에도 책임을 지지 않습니다.

CA 제품 참조

이 문서는 다음 CA Technologies 제품을 참조합니다 :

- CA Access Control Enterprise Edition
- CA Access Control
- 사용자 활동 보고
- CA Identity Manager

설명서 규칙

CA Access Control 설명서는 다음과 같은 규칙을 따릅니다.

형식	의미
고정 폭 글꼴	코드 또는 프로그램 출력
기울임꼴	강조 또는 새 용어
굵게	표시된 대로 동일하게 입력해야 하는 텍스트
슬래시(/)	UNIX 및 Windows 경로를 기술하는 데 사용되는 플랫폼 독립적인 디렉터리 구분 기호

이 설명서는 또한 명령 구문과 사용자 입력(고정 폭 글꼴로 표시됨)을 설명할 때 다음과 같은 특별한 규칙을 사용합니다.

형식	의미
기울임꼴	반드시 입력해야 하는 정보
대괄호([]) 사이	선택적 피연산자
중괄호({ }) 사이	필수 피연산자 집합
파이프()로 구분된 선택 사항	대체 피연산자(하나 선택)를 구분합니다. 예를 들어, 다음은 사용자 이름 또는 그룹 이름 중 하나라는 의미입니다. <code>{username groupname}</code>

형식	의미
...	앞의 항목 또는 항목 그룹이 반복될 수 있음을 나타냅니다.
밑줄	기본값
줄 마지막에 공백 다음의 백슬래시(\)	<p>때때로 이 안내서에서 명령이 한 줄에 모두 표시되지 않는 경우가 있습니다. 이런 경우에는 줄 끝에 공백과 백슬래시(\)를 표시하여 명령이 다음 줄에서 계속됨을 나타냅니다.</p> <p>참고: 실제 명령을 입력할 때는 이러한 백슬래시를 포함하지 말고 줄바꿈 없이 명령을 한 줄에 입력하십시오. 백슬래시 및 줄바꿈은 실제 명령 구문에 포함되지 않습니다.</p>

예제: 명령 표기 규칙

다음 코드는 이 안내서에서 명령 규칙이 사용되는 방식을 보여 줍니다.

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

설명:

- 표시되는 그대로 입력해야 하는 명령 이름(**ruler**)은 일반 고정 폭 글꼴로 표시됩니다.
- **className** 옵션은 클래스 이름(예: **USER**)이 들어갈 자리이므로 기울임꼴로 표시됩니다.
- 대괄호로 묶인 두 번째 부분은 선택적 피연산자를 의미하므로 이 부분 없이 명령을 실행할 수도 있습니다.
- 옵션 매개 변수(**props**)를 사용할 때 키워드 **all**을 선택하거나 하나 이상의 속성 이름을 쉼표로 구분하여 지정할 수 있습니다.

파일 위치 규칙

CA Access Control 설명서는 다음과 같은 파일 위치 규칙을 따릅니다.

- *ACVEInstallDir* - 기본 CA Access Control for Virtual Environments 설치 디렉터리:
 - */opt/CA/AccessControlServer/VirtualAppliance*
- *ACInstallDir* - 기본 CA Access Control 설치 디렉터리입니다.
 - [set the alternate Installation Path variable]
- *ACSharedDir* - UNIX 에서 CA Access Control 에 의해 사용되는 기본 디렉터리입니다.
 - */opt/CA/SharedComponents*
- *ACServerInstallDir* - 기본 CA Access Control 엔터프라이즈 관리 설치 디렉터리입니다.
 - */opt/CA/AccessControlServer*
- *JBoss_HOME* - 기본 JBoss 설치 디렉터리입니다.
 - */opt/jboss-4.2.3.GA*

CA 에 문의

기술 지원팀에 문의

온라인 기술 지원 및 지사 목록, 기본 서비스 시간, 전화 번호에 대해서는 <http://www.ca.com/worldwide>에서 기술 지원팀에 문의하십시오.

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제 1 장: 시작

이 안내서는 개선 사항, 기존 기능에 대한 변경 사항, 운영 체제 지원, 시스템 요건에 대해 설명합니다. 이 안내서는 또한 CA Access Control for Virtual Environments의 설명서 집합, 중요한 설치 및 사용 정보, 게시된 솔루션, 알려진 문제에 대해서도 설명합니다.

이 섹션은 다음 항목을 포함하고 있습니다.

[보완 사용자 활동 보고 라이선스](#) (페이지 11)

보완 사용자 활동 보고 라이선스

CA Access Control Enterprise Edition 소유자는 사용자 활동 보고 제품에서 CA Access Control 감사 로그를 사용하여 제한된 수집, 관리, 보고 기능을 수행할 수 있습니다. 먼저 CA Access Control Enterprise Edition 고객에게 상징적 가격으로 제공되는 "사용자 활동 보고 Server for CA Access Control"(Codes ELMSAC99100/ELMSAC991) 라이선스를 구해야 합니다.

북미에서 사용자 활동 보고 라이선스를 구하려면 해당 지역의 고객 담당자에게 문의하십시오. 북미 이외의 지역에서는 해당 지역의 고객 담당자나 CA Technologies 지사로 문의하십시오. CA 온라인 지원 웹 사이트(<http://www.ca.com/worldwide>)의 다운로드 센터를 통해 해당 CA Access Control Enterprise Edition 다운로드 링크 아래에서 사용자 활동 보고를 온라인으로 다운로드할 수 있습니다.

제 2 장: 시스템 요구 사항

이 섹션은 다음 항목을 포함하고 있습니다.

[운영 체제 지원](#) (페이지 13)

[CA Access Control for Virtual Environments 서버 요구 사항](#) (페이지 13)

[CA Access Control for Virtual Environments 통합 구성 요소](#) (페이지 14)

[엔터프라이즈 보고 요구 사항](#) (페이지 15)

운영 체제 지원

지원되는 운영 체제에 대한 목록은 [CA Support](#)의 CA Access Control 제품 페이지에 있는 CA Access Control 호환성 표를 참조하십시오.

CA Access Control for Virtual Environments 서버 요구 사항

CA Access Control 서버의 최소 요구 사항은 다음과 같습니다.

- 아키텍처 - Intel 64 비트
- 프로세서 - 2
- 메모리 - 3.5 GB RAM
- 여유 디스크 공간 - 설치를 위한 30GB, 스왑 파일을 위한 3GB

추가로, CA Access Control for Virtual Environments 는 다음과 같은 설치된 소프트웨어가 필요합니다.

- **VMware ESX/ESXi** - 4.0, 4.1
- **VMware 도구** - CA Access Control for Virtual Environments 가 관리하는 각 컴퓨터에 필요
- **중앙 데이터베이스(RDBMS)** - Oracle Database 10g, Oracle Database 11g, Microsoft SQL Server 2005 또는 Microsoft SQL Server 2008 R2

참고: 중앙 데이터베이스는 일반적으로 다른 서버에 설치됩니다. RDBMS 의 시스템 요구 사항에 대한 자세한 내용은 제품의 설명서를 참조하십시오.

- **사용자 저장소** - Active Directory, RDBMS

사용자 시스템은 최소 1024 x 768 화면 해상도 및 다음 항목이 필요합니다.

- **VMware vSphere Client** - 4.0, 4.1
- **Windows** - Microsoft Internet Explorer 7.x 또는 8.x, 또는 Mozilla Firefox 2.x 또는 3.0 또는 3.5
- **Linux** - Mozilla Firefox 2.x 또는 3.0 또는 3.5

CA Access Control for Virtual Environments 통합 구성 요소

CA Access Control for Virtual Environments 는 다음 제품과의 통합을 지원합니다.

- **Active Directory** - (선택 사항) 엔터프라이즈 사용자 저장소
참고: CA Access Control for Virtual Environments 와 동일한 컴퓨터에 사용자 저장소를 설치할 필요는 없습니다.
- **보고서 포털** - CA Business Intelligence
참고: 엔터프라이즈 관리 서버와 동일한 컴퓨터에 이 소프트웨어를 설치할 필요는 없습니다. 보고서 포털의 시스템 요구 사항에 대한 자세한 내용은 *CA Business Intelligence 설치 안내서*를 참조하십시오.
참고: CA Business Intelligence 에 대한 자세한 내용은 [CA Technologies Support](#)에 있는 *CA Business Intelligence 설치 안내서*를 참조하십시오.
- **사용자 활동 보고**
참고: 엔터프라이즈 관리 서버와 동일한 컴퓨터에 이 소프트웨어를 설치하지 마십시오. 사용자 활동 보고의 시스템 요구 사항에 대한 자세한 내용은 *사용자 활동 보고 릴리스 정보*를 참조하십시오.

엔터프라이즈 보고 요구 사항

중앙 데이터베이스(RDBMS)로 Oracle Database 10g 또는 Oracle Database 11g 를 사용하는 경우 CA Access Control 엔터프라이즈 관리를 설치하기 전에 다음을 수행하십시오.

- Oracle 호스트와 CA Business Intelligence 호스트가 통신할 수 있는지 확인합니다.
- CA Business Intelligence 호스트에 Oracle 클라이언트 소프트웨어를 설치합니다.
- CA Business Intelligence 호스트에서 Oracle TNS 정의가 중앙 데이터베이스를 가리키는지 확인합니다.

중앙 데이터베이스(RDMBS)로 Microsoft SQL Server 2005 또는 Microsoft SQL Server 2008 을 사용하는 경우 보고서 서버를 설치하기 전에 다음을 수행하십시오.

- MS SQL 호스트와 CA Business Intelligence 호스트가 통신할 수 있는지 확인합니다.

중요! 보고 서버로 Microsoft SQL Server 를 사용하는 경우 지원되는 Windows 운영 체제에 보고서 포털을 설치하십시오.

제 3 장: 설명서

이 섹션은 다음 항목을 포함하고 있습니다.

[안내서](#) (페이지 17)

[설명서 규칙](#) (페이지 17)

안내서

CA Access Control for Virtual Environments r2.0 용 PDF 및 HTML 안내서는 다음과 같습니다.

- 릴리스 정보
- 제품 안내서
- 엔터프라이즈 관리 안내서
- 통합 안내서

참고: PDF 파일을 보려면 PDF(Portable Document Format) 구독 프로그램을 다운로드하여 설치해야 합니다. CA Access Control for Virtual Environments 설명서를 보려면 Adobe Reader 7.0.7 이상이 필요합니다. Adobe Reader 가 아직 컴퓨터에 설치되어 있지 않으면 Adobe 웹사이트에서 다운로드하십시오.

CA Access Control for Virtual Environments 안내서는 PDF 안내서 외에도 HTML 형식으로도 제공되며, 다양한 웹 기반 인터페이스에서 온라인 도움말을 이용할 수 있습니다.

설명서 규칙

CA Access Control 설명서는 다음과 같은 규칙을 따릅니다.

형식	의미
고정 폭 글꼴	코드 또는 프로그램 출력
기울임꼴	강조 또는 새 용어
굵게	표시된 대로 동일하게 입력해야 하는 텍스트

형식	의미
슬래시(/)	UNIX 및 Windows 경로를 기술하는 데 사용되는 플랫폼 독립적인 디렉터리 구분 기호

이 설명서는 또한 명령 구문과 사용자 입력(고정 폭 글꼴로 표시됨)을 설명할 때 다음과 같은 특별한 규칙을 사용합니다.

형식	의미
<i>기울임꼴</i>	반드시 입력해야 하는 정보
대괄호([]) 사이	선택적 피연산자
중괄호({ }) 사이	필수 피연산자 집합
파이프()로 구분된 선택 사항	대체 피연산자(하나 선택)를 구분합니다. 예를 들어, 다음은 사용자 이름 또는 그룹 이름 중 하나라는 의미입니다. <i>{username groupname}</i>
...	앞의 항목 또는 항목 그룹이 반복될 수 있음을 나타냅니다.
밑줄	기본값
줄 마지막에 공백 다음의 백슬래시(\)	때때로 이 안내서에서 명령이 한 줄에 모두 표시되지 않는 경우가 있습니다. 이런 경우에는 줄 끝에 공백과 백슬래시(\)를 표시하여 명령이 다음 줄에서 계속됨을 나타냅니다. 참고: 실제 명령을 입력할 때는 이러한 백슬래시를 포함하지 말고 줄바꿈 없이 명령을 한 줄에 입력하십시오. 백슬래시 및 줄바꿈은 실제 명령 구문에 포함되지 않습니다.

예제: 명령 표기 규칙

다음 코드는 이 안내서에서 명령 규칙이 사용되는 방식을 보여 줍니다.

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

설명:

- 표시되는 그대로 입력해야 하는 명령 이름(**ruler**)은 일반 고정 폭 글꼴로 표시됩니다.
- **className** 옵션은 클래스 이름(예: **USER**)이 들어갈 자리이므로 기울임꼴로 표시됩니다.
- 대괄호로 묶인 두 번째 부분은 선택적 피연산자를 의미하므로 이 부분 없이 명령을 실행할 수도 있습니다.
- 옵션 매개 변수(**props**)를 사용할 때 키워드 **all**을 선택하거나 하나 이상의 속성 이름을 쉼표로 구분하여 지정할 수 있습니다.

제 4 장: 일반 고려 사항

이 섹션에는 CA Access Control for Virtual Environments 를 사용할 때 고려해야 할 항목에 대한 정보를 수록하고 있습니다.

Microsoft Internet Explorer 버전 6 이 지원되지 않음

CA Access Control for Virtual Environments 는 Microsoft Internet Explorer 버전 6 을 지원하지 않습니다.

제 5 장: 알려진 문제

이 섹션은 다음 항목을 포함하고 있습니다.

[설치 알려진 문제점](#) (페이지 23)

[일반 알려진 문제점](#) (페이지 23)

설치 알려진 문제점

이 섹션에서는 CA Access Control for Virtual Environments 의 설치 관련 알려진 문제점에 대해 설명합니다.

설치 후 네트워크 설정이 저장되지 않음

CA Access Control 서버 정적 IP 주소를 지정하면 `/etc/resolv.conf` 파일의 `"search domain_name"` 줄이 제거됩니다. 또한, 여러 DNS 서버를 지정하면 네트워크 설정이 `/etc/resolv.conf` 파일에 저장되지 않습니다.

이 문제를 해결하려면 `/etc/resolv.conf` 파일을 편집하여 `/etc/resolv.conf/` 파일에 `"search domain_name"` 줄을 추가하거나 다음과 같이 DNS 서버를 지정하십시오.

```
search company.com
nameserver 191.168.1.1
nameserver 192168.1.11
```

일반 알려진 문제점

이 섹션에서는 CA Access Control for Virtual Environments 의 일반적인 알려진 문제점에 대해 설명합니다.

VMware vSphere Client 에 시간 만료 메시지가 표시되지 않음

VMware vSphere Client 에서 수행된 작업이 성공적으로 완료되지 않는 경우 시간 만료 메시지가 표시되지 않습니다.

보안 그룹을 삭제할 때 오류 메시지가 로깅됨

VMware vShield App 관리 인터페이스로부터 규칙이 할당된 규칙이 있는 보안 그룹을 삭제하면 오류 메시지가 CA Access Control for Virtual Environments 서버 로그 파일에 로깅됩니다.

Active Directory 를 사용할 때 추가 구성이 필요함

Active Directory 사용자 저장소를 사용하도록 CA Access Control for Virtual Environments 를 구성한 경우 다음 단계를 완료하십시오.

1. /etc/hosts 파일에서 다음을 수행합니다.
 - Active Directory 서버의 IP 주소와 Active Directory 도메인 서버의 고유 이름(DN)을 추가합니다. 예: 192.168.1.1.company.com
2. /etc/resolv.conf 에서 다음을 수행합니다.
 - 검색 줄에 정의된 값이 Active Directory 도메인 컨트롤러를 정확히 찾는지 확인합니다.
 - 도메인 컨트롤러의 IP 주소를 이름 서버로 추가합니다. 예: nameserver 192.168.1.1

작업 표시기가 표시되지 않음

로그인한 사용자에게 VMware vCenter 에 대한 관리 권한이 없는 경우 VMware vSphere Client 에서 작업 표시기가 표시되지 않습니다.

CA Access Control 엔터프라이즈 관리 계층이 업데이트되지 않음

CA Access Control 엔터프라이즈 관리는 VMware vSphere Client 에서 다음 이벤트가 발생한 이후에 보안 그룹 계층 표시를 업데이트하지 않습니다.

- 다른 데이터센터로 ESX/ESXi 전송
- 리소스 풀과 가상 어플라이언스 사이에서 리소스 풀, 가상 컴퓨터, 가상 어플라이언스 전송
- 다른 ESX/ESXi 로 리소스 풀 또는 가상 어플라이언스 이동
- 관리되는 장치 또는 ESX/ESXi 주석 키 삭제

참고: 이 이벤트는 관리되는 장치 특성을 변경하며, 관련 태그 규칙이 있는 경우 관리되는 장치의 자동 할당 취소에 영향을 줄 수 있습니다.

이 문제를 해결하려면 "시스템" 탭 아래에 있는 "VMware vCenter 계층 검색 동기화 및 업데이트" 작업을 사용하여 보안 그룹 계층을 업데이트하십시오.

네트워크 정책 규칙이 VMWare vShield App 에서 삭제되지 않음

보안 그룹에 할당한 이후에 네트워크 영역 정책을 삭제하면 네트워크 규칙이 VMWare vShield App 에서 제거되지 않습니다.

VMware vCenter Server 연결 개체의 사본을 만들 수 없음

CA Access Control 엔터프라이즈 관리에서는 기존 VMware vCenter Server 연결의 사본을 만들 수 없습니다.

VMware vCenter Server 연결을 재생성할 수 없음

이전에 정의된 URL 로 VMware vCenter Server 연결 개체를 재생성할 수 없습니다. 이 문제를 해결하려면 VMware vCenter Server 의 전체 DN 을 IP 주소로 대체하십시오.

관리되는 장치 이름에서 지원되지 않는 문자

VMware vSphere Client 또는 CA Access Control 엔터프라이즈 관리에서 다음 문자를 사용하여 관리되는 장치를 만들 수 없습니다.

- 백슬래시(\)
- 쉼표(,)
- 더하기 기호(+)

관리되는 장치의 이름을 변경하여 금지된 문자를 제거할 것을 권장합니다.

VMware vSphere Client 의 사용자 작업이 사용자 활동 보고에서 모니터링되지 않음

CA Access Control for Virtual Environments 는 VMware vSphere Client 에서 수행된 사용자 작업을 사용자 활동 보고으로 보내지 않습니다. VMware vSphere Client 에서 사용자 작업에 대한 보고서를 생성할 수 없습니다.

부록 A: 타사 사용권 계약

이 섹션은 다음 항목을 포함하고 있습니다.

[Apache 라이선스하의 소프트웨어](#) (페이지 29)

[Daniel Veillard 라이선스하의 소프트웨어](#) (페이지 37)

[Software Under the OpenLDAP License](#) (페이지 39)

[Software Under the OpenSSL License](#) (페이지 42)

[AES 2.4](#) (페이지 48)

[AIX JRE 1.4.2](#) (페이지 49)

[AIX JRE 1.5.0](#) (페이지 49)

[ANTLR 2.7.5H3](#) (페이지 50)

[BSAFE Crypto-J 3.6](#) (페이지 51)

[CPAN Perl 5.8.8](#) (페이지 55)

[CRC32](#) (페이지 56)

[Cyrus SASL 2.1.22](#) (페이지 58)

[DES algorithm N/A](#) (페이지 60)

[dom4j 1.5](#) (페이지 61)

[Hibernate 3.2](#) (페이지 63)

[Java Mail 1.3.3](#) (페이지 63)

[ICU4C 3.4](#) (페이지 67)

[JBoss 4.0.1 SP1](#) (페이지 69)

[JBoss Application Server v.4.2.3](#) (페이지 70)

[JBoss Native v.2.0.6](#) (페이지 71)

[JCIFS Client Library 1.3.14](#) (페이지 71)

[JDOM 1.0](#) (페이지 80)

[JTA 1.0.1B](#) (페이지 82)

[JWSDP 1.3](#) (페이지 85)

[MD5 Message Digest Algorithm](#) (페이지 95)

[Microsoft Detours 2.1](#) (페이지 96)

[Microsoft Visual C 2005 SP1 Redistributable Package \(IA64\) 8.0.50727.762](#)
(페이지 96)

[Microsoft Visual C 2005 SP1 Redistributable Package \(x64\) 8.0.50727.762](#)
(페이지 113)

[Microsoft Visual C 2005 SP1 Redistributable Package \(x86\) 8.0.50727.762](#)
(페이지 130)

[MIT Kerberos v5 r1.5](#) (페이지 147)
[nss ldap 2.62](#) (페이지 171)
[OpenLDAP 2.3.39 \(20071118\)](#) (페이지 178)
[Oracle JDBC Driver 10g Release 2 \(10.2.0.1.0\)](#) (페이지 179)
[Oracle JDBC Driver 10g Release 2 \(10.2.0.3.0\)](#) (페이지 184)
[OpenSSL 0.9.8h](#) (페이지 187)
[Perl2exe 8.4](#) (페이지 189)
[PCRE 6.3](#) (페이지 191)
[Rhino 1.6r4](#) (페이지 193)
[SAXPath 1](#) (페이지 194)
[SHA-1](#) (페이지 197)
[SQLite 3.6.1](#) (페이지 197)
[Sun JDK 1.4.2_13](#) (페이지 199)
[Sun JDK 1.6.0](#) (페이지 210)
[Sun JRE 1.5.0_18](#) (페이지 225)
[Tibco Enterprise Message Service 5.1.4](#) (페이지 239)
[UnboundID LDAP SDK for Java 1.1.6](#) (페이지 249)
[WSDL4J 1.5.1](#) (페이지 289)
[XNTP v.3-5.93](#) (페이지 293)
[XScreenSaver](#) (페이지 294)
[Zlib 1.2.3](#) (페이지 294)
[ZThread 2.3.2](#) (페이지 295)

Apache 라이선스하의 소프트웨어

이 제품에는 Apache Software Foundation(<http://www.apache.org/>)에서 개발한 소프트웨어가 일부 포함되어 있습니다.

- 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

이 제품에는 다음 사용권 계약에 따라 배포되는 Jakarta Commons HttpClient 2.0.2 이 포함되어 있습니다.

- Commons HttpClient 3.0.1
- Commons Lang 2.1
- Commons Logging 1.0.4
- Commons Logging 1.04
- Commons Pool 1.3
- Commons Validator 1.2
- HTTP Web Server 2.0.54
- HTTP Web Server 2.2.3
- JSTL 1.0.6
- Log4j 1.2.8
- myfaces 1.1.4

- ORO 2.0.8
- Slide 2.1
- Struts 1.2.9
- Tofigurator v.1.0

이 제품에는 다음과 같은 사용권 계약에 따라 배포되는 Tofigurator v.1.0 이 포함되어 있습니다.

- tomahawk 1.1.5
- Tomcat 5.0.28
- Tomcat 5.5.12
- Tomcat 5.5.20

이 제품에는 다음 사용권 계약에 따라 배포되는 Apache Tomcat 5.5.20 가 포함되어 있습니다.

- Velocity 1.4
- Xalan-C 1.10.0
- Xalan-C 1.9.0
- Xalan-J 2.6.0
- Xalan-J 2.7.0

이 제품에는 다음 사용권 계약에 따라 배포되는 Apache Xalan-J v.2.7.0 이 포함되어 있습니다.

- Xerces-C++ 2.6.0
- Xerces-C++ 2.7.0
- Xerces-C++ 2.8.0

Apache 소프트웨어는 다음 사용권 계약에 따라 배포됩니다.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

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'control' means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the

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/*      $OpenBSD: crc32.c,v 1.9 2003/02/12 21:39:50 markus Exp $      */
```

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Cyrus SASL 2.1.22

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```
/* CMU libsasl
```

```
* Tim Martin
```

```
* Rob Earhart
```

```
* Rob Siemborski
```

```
*/
```

```
/*
```

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*/

DES algorithm N/A

DES encryption functions written 12 Dec 1986 by Phil Karn, KA9Q; large sections adapted from the 1977 public-domain program by Jim Gillogly Modified for additional speed - 6 December 1988 Phil Karn Modified for parameterized key schedules - Jan 1991 Phil Karn AS PER

<http://www.ka9q.net/code/des/index.html> RELAXATION OF US EXPORT CONTROLS On January 14, 2000 the United States Government relaxed its export regulations governing cryptographic source code. The software on these web pages all qualify as: Encryption source code which is available to the public and which is not subject to an express agreement for the payment of a licensing fee or royalty for commercial production or sale of any product developed with the source code so they are now available from this website without restriction as to destination. They are still available through the export-controlled North American Cryptography Archives server: DES/3DES code in x86 asm DES/3DES code in portable C

dom4j 1.5

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Hibernate 3.2

Hibernate 3.2

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Java Mail 1.3.3

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JWSDP 1.3

Note the redistributable components are listed in the release notes (the license listed below is not applicable to the components we ship, however it is also attached below) Java(TM) Web Services Developer Pack 1.3 Java(TM) Web Services Developer Pack 1.3 Release Notes Printable Page JAVATM WEB SERVICES DEVELOPER PACK 1.3 RELEASE NOTES Contents Supported Platforms Redistributable Components Nonredistributable Components Environment Variables Modifying Tomcat's and Xindice's Default Host and Port Settings Modifying the Default Logging Level Uninstalling Java WSDP 1.3 Known Issues The Java(TM) Web Services Developer Pack (Java WSDP) is an all-in-one download containing key technologies to simplify building of Web services using the Java 2 Platform. For release notes for these technologies see: WS-I Sample Application 1.0 FCS Release Notes JSF 1.0 EA4 Release Notes XML and Web Services Security 1.0 EA2 JAXB 1.0.2 FCS Release Notes SAAJ 1.2 FCS Release Notes JAXP 1.2.4 FCS Release Notes JAXR 1.0.5 FCS JAX-RPC 1.1 FCS Release Notes JSTL 1.1 EA Release Notes Apache Tomcat 5 EA Release Notes Registry Server 1.0_06 FCS Release Notes Supported Platforms This release of the Java WSDP has been tested in various configurations with J2SE SDK versions 1.4.1_xx and 1.4.2_xx on the following platforms: Solaris™ 8 Operating System Solaris 9 Operating System Windows 2000 Professional Edition Windows XP Professional Edition RedHat Linux 8.0 Redistributable Components Redistribution of the entire Java WSDP is subject to this license. The following Java WSDP components are individually redistributable. Redistribution of a component entails the redistribution of all files comprising the component and any dependent components. Redistributable Component Files JAXP jaxp-api.jar, dom.jar, sax.jar, xalan.jar, xercesImpl.jar, xsltc.jar JAXB * JAXB JAR files (jaxb-api.jar, jaxb-impl.jar,

jaxb-libs.jar, jaxb-xjc.jar), JAXP 1.1 or higher JAR files (jaxp-api.jar, sax.jar, dom.jar, xalan.jar), JWSDP Shared JAR files (jax-qname.jar, namespace.jar, xsdlib.jar, relaxngDatatype.jar) JAX-RPC jaxrpc-api.jar, jaxrpc-impl.jar, jaxrpc-spi.jar, relaxngDatatype.jar, xsdlib.jar, JAXP, SAAJ, jcert.jar, jnet.jar, jsse.jar SAAJ saaj-api.jar, saaj-impl.jar, jaxp-api.jar, dom.jar, sax.jar, xalan.jar, xercesImpl.jar, activation.jar, mail.jar, servlet.jar JAXR jaxr-api.jar, jaxr-impl.jar, jaxb-api.jar, jaxb-impl.jar, jaxb-libs.jar, saaj-api.jar, saaj-impl.jar, jaxp-api.jar, dom.jar, sax.jar, xercesImpl.jar, activation.jar, jaas.jar, mail.jar, namespace.jar, relaxngDatatype.jar, xsdlib.jar * If the application will not be doing any compilation at runtime, the jaxb-xjc.jar file does not need to be redistributed with the application.

Nonredistributable Components The following Java WSDP components are not redistributable. These components can only be used for designing, developing, and testing purposes. Note: EA components are never redistributable; FCS components usually are, but there are some exceptions which are noted in the table that follows.

Nonredistributable Component Files

Registry Server registry-server.war, xindice.jar
Java XML & Web Services Security all
JSF all
JSTL all
WS-I Sample Application all
Tomcat all
Environment Variables The JAVA_HOME environment variable is set to point to the version of the J2SE SDK you specify during installation. If you change your J2SE SDK installation, you will need to edit your jwsdp-sharedinsetenv.bat batch file or /jwsdp-shared/bin/setenv.sh and reset the JAVA_HOME environment variable. All other custom system properties can be set in the file /conf/jwsdp.properties as follows: http.proxyHost=webcache http.proxyPort=8080 You can override any of the properties in your file /conf/jwsdp.properties by using the -D... argument to any of the start scripts. For example, Unix: catalina.sh -Dhttp.proxyHost=webcache -Dhttp.proxyPort=8080 Microsoft Windows: catalina -Dhttp.proxyHost=webcache -Dhttp.proxyPort=8080

Modifying Tomcat's and Xindice's Default Host and Port Settings By default, Tomcat uses port 8080. There may be times when you need to change this setting. To start Tomcat on a nonstandard port, edit the following portion of the /conf/server.xml file, changing the default "8080" value (shown in bold below) to the new port number: --> To change the host and port that the JWSDP Registry Server uses to connect to Xindice, edit the following properties in the /jwsdp-shared/bin/launcher.xml file and uncomment them. The host and port must be the same as the Tomcat host and port.

Modifying Tomcat's Default Logging Level The Java WSDP supports the Jakarta Commons Logging API. By default, the logging level for the technologies in the Java WSDP is set to warn. The following levels are available, in ascending order of granularity: fatal error warn info debug trace You can change the default level of logging for Tomcat. For example, to change the default level to debug, specify the following properties in your /conf/jwsdp.properties file.

```
org.apache.commons.logging.Log=org.apache.commons.logging.impl.SimpleLog
org.apache.commons.logging.simplelog.defaultlog=debug
```

Logging output appears in the file /logs/jwsdp_log.txt. You can set the logging level for more

than one logger by specifying additional properties. If applicable, see the release notes for individual technologies to learn how to set the logging level for each technology. The default logger, SimpleLog, assumes that logger names are hierarchical. To set a default log level for all the technologies with package names beginning with com.sun.xml, you can say:

```
org.apache.commons.logging.log.com.sun.xml=info
```

You could add another system property definition to specify logging for Tomcat classes. For example, use `org.apache.commons.logging.log.org.apache.commons.digester=warn` to receive only warnings from the Digester module that Tomcat uses to parse web.xml files. For more information about configuring logging, see the Jakarta Commons Logging API documentation. In particular, refer to the Package Description. Uninstalling Java WSDP 1.3 At some point, you may need to uninstall Java WSDP 1.3: On Microsoft Windows, select Start --> Programs --> Java(TM) Web Services Developer Pack 1.3 --> Uninstall. On Solaris and Linux, run the `/uninstall.sh` script. Known Issues Overriding the J2SE SDK 1.4.x JAXP Endorsed Classes For standalone Java applications to work with the Java WSDP, the JAXP classes built into JDK 1.4.x must be overridden. Overriding these classes is not necessary in order to run the bundled Tomcat server or the sample applications, since the provided scripts set the `java.endorsed.dirs` property. For JDK 1.4.x users, set the `java.endorsed.dirs` system property to:

```
/jaxp/lib/endorsed
```

Alternatively, create the directory: `/jre/lib/endorsed` and then copy the files in the `/jaxp/lib/endorsed` directory to the newly created directory. Note: If you are using a version of the J2SE SDK earlier than 1.4.2 on Windows, note that the JRE is installed in two places: under your J2SE SDK directory and under the `C:\Program Files\jre` directory. If you copy the files in the `/jaxp/lib/endorsed` directory, make sure that you copy the JAXP JAR files into the `jrelibendorsed` directory in the directory structure from which you run `java.exe`. If you do not, the JAXP JAR files will not be found. Installer Doesn't Start Browser and Display Getting Started Page on Solaris On systems running the Sun Solaris operating system, when you click the View Getting Started button at the end of the Java WSDP installation, nothing happens if your Netscape browser isn't up and running. No error message is displayed. If you subsequently start your Netscape browser and click the button again, the Getting Started page is displayed. On systems running Microsoft Windows, the default browser is started if it is not already running. Trouble Creating a RemoteHostValve on a Local Machine with Admintool on Windows 2000 When you run Admintool in a browser locally (on the machine running the Java WSDP server), you cannot create a RemoteHostValve. You will get a validation error indicating that the admin's host name must be included even if you include both localhost and the actual host name in the "Allow these Hosts" field. However, if you run the Admintool in a browser from a remote system, this problem does not occur. This problem only occurs on systems running Windows 2000. Using the Java WSDP Registry Server with the S1AS Server To use applications that require UDDI v.2 functionality on the S1AS server, you should run the Java

WSDP Registry Server from the Java WSDP by executing the `/bin/startup.sh` script (Solaris, Linux) or click on the Start menu and select Programs --> Java(TM) Web Services Developer Pack 1.3 --> Start Tomcat (Windows). The Java WSDP Registry Server is a Web application that is automatically started by the Tomcat container when the Java WSDP is running. S1AS7 applications can then reference the UDDI functionality in the Java WSDP Registry Server by using an endpoint of `http://localhost:8080/RegistryServer`. Note: Java WSDP 1.3 allows the default Tomcat host and port settings to be modified. In fact, applications running on the J2EE 1.4 Application Server must use a different endpoint to avoid a port conflict. See *Modifying Tomcat's and Xindice's Default Host and Port Settings* for information about modifying the appropriate properties. Using the Java WSDP Registry Server with J2SE SDK v1.3.1 The Java WSDP Registry Server sometimes returns incorrect search results for searches on the J2SE SDK v1.3.1. The Java WSDP Registry Server should not be used on the J2SE SDK, v1.3.1. The Java WSDP Registry Server returns correct results on the J2SE SDK, v1.4.x. Sun ONE Application Server 7 Version Required by the `jwsdpsunone` Integration Script The Java WSDP 1.3 components can be used with the Sun ONE Application Server 7, Standard Edition Update 1, Evaluation only version (with Sun ONE Studio 5, Standard Edition bundled). The `jwsdpsunone` integration script does not work with any other evaluation bundles. You can get these bundles for Windows 2000/XP and Linux on the http://www.sun.com/software/products/appsrvr/appsrvr_download.html page. For Solaris, you must get the bundle from this page `saaj-simple` and `saaj-book` Samples May Fail If Proxy Is Set If you start Tomcat with the HTTP Proxy host and port set, the `saaj-simple` and `saaj-book` examples will fail with the following error message only if the first time you attempt to run them, you do so from a browser on a different machine. Invalid Content-Type. Could be an error message instead of a SOAP message How your proxy server is configured determines whether or not this problem may occur. If you see this problem, edit the `/jwsdp-1.3/jwsdp-shared/jwsdp.properties` file and comment out the line that sets the host and port for the proxy server. Please send feedback on this Java WSDP release to jwsdp-feedback@sun.com. License for JWSDP 1.3: JAVA(TM) WEB SERVICES DEVELOPER PACK, VERSION 1.3 Sun Microsystems Inc. Software License Agreement SUN IS WILLING TO LICENSE THE ACCOMPANYING BINARY SOFTWARE IN MACHINE- READABLE FORM, TOGETHER WITH ACCOMPANYING DOCUMENTATION (COLLECTIVELY "SOFTWARE") TO YOU ONLY UPON THE CONDITION THAT YOU ACCEPT ALL OF THE TERMS AND CONDITION CONTAINED IN THIS SOFTWARE LICENSE AGREEMENT. READ THE TERMS AND CONDITIONS OF THIS SOFTWARE LICENSE AGREEMENT CAREFULLY BEFORE OPENING THE SOFTWARE MEDIA PACKAGE. BY OPENING THE SOFTWARE MEDIA PACKAGE, YOU AGREE TO THE TERMS OF THIS SOFTWARE LICENSE AGREEMENT. IF YOU ARE ACCESSING THE SOFTWARE ELECTRONICALLY, INDICATE YOUR ACCEPTANCE OF THESE TERMS BY SELECTING THE "ACCEPT" BUTTON AT THE END OF THIS SOFTWARE LICENSE AGREEMENT. IF YOU DO NOT

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```
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```

```
*/
```

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RFC 1321

MD5 Message-Digest Algorithm

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OU L'AUTRE DE SES FOURNISSEURS AUX TERMES DE TOUTE DISPOSITION DE LA PRÉSENTE CONVENTION ET VOTRE RECOURS EXCLUSIF ? L'ÉGARD DE TOUT CE QUI PRÉCÈDE (SAUF EN CE QUI CONCERNE TOUT RECOURS DE RÉPARATION OU DE REMPLACEMENT CHOISI PAR MICROSOFT ? L'ÉGARD DE TOUT MANQUEMENT ? LA GARANTIE LIMITÉE) SE LIMITE AU PLUS ÉLEVÉ ENTRE LES MONTANTS SUIVANTS : LE MONTANT QUE VOUS AVEZ ÉLEMENTAIRE PAYÉ POUR LE LOGICIEL OU 5,00 \$US. LES LIMITES, EXCLUSIONS ET DÉTACHÉS QUI PRÉCÈDENT (Y COMPRIS LES CLAUSES CI-DESSUS), S'APPLIQUENT DANS LA MESURE MAXIMALE PERMISE PAR LES LOIS APPLICABLES, MÊME SI TOUT RECOURS N'ATTEINT PAS SON BUT ESSENTIEL. ? moins que cela ne soit prohibé par le droit local applicable, la présente Convention est régie par les lois de la province d'Ontario, Canada. Vous consentez ? la compétence des tribunaux fédéraux et provinciaux siégeant ? Toronto, dans la province d'Ontario. Au cas où vous auriez des questions concernant cette licence ou que vous désiriez vous mettre en rapport avec Microsoft pour quelque raison que ce soit, veuillez utiliser l'information contenue dans le Logiciel pour contacter la filiale de Microsoft desservant votre pays, ou visitez Microsoft sur le World Wide Web ? <http://www.microsoft.com>. The following MICROSOFT GUARANTEE applies to you if you acquired this Software in any other country: Statutory rights not affected - The following guarantee is not restricted to any territory and does not affect any statutory rights that you may have from your reseller or from Microsoft if you acquired the Software directly from Microsoft. If you acquired the Software or any support services in Australia, New Zealand or Malaysia, please see the 'Consumer rights' section below. The guarantee - The Software is designed and offered as a general-purpose software, not for any user's particular purpose. You accept that no Software is error free and you are strongly advised to back-up your files regularly. Provided that you have a valid license, Microsoft guarantees that a) for a period of 90 days from the date of receipt of your license to use the Software or the shortest period permitted by applicable law it will perform substantially in accordance with the written materials that accompany the Software; and b) any support services provided by Microsoft shall be substantially as described in applicable written materials provided to you by Microsoft and Microsoft support engineers will use reasonable efforts, care and skill to solve any problem issues. In the event that the Software fails to comply with this guarantee, Microsoft will either (a) repair or replace the Software or (b) return the price you paid. This guarantee is void if failure of the Software results from accident, abuse or misapplication. Any replacement Software will be guaranteed for the remainder of the original guarantee period or 30 days, whichever period is longer. You agree that the above guarantee is your sole guarantee in relation to the Software and any support services. Exclusion of All Other Terms - To the maximum extent permitted by applicable law and subject to the guarantee above, Microsoft disclaims all warranties, conditions and other terms, either express or implied (whether by statute, common law, collaterally or otherwise) including but not

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MIT Kerberos v5 r1.5

이 제품은 Kerberos 가 표준 Kerberos 5 배포에 포함하도록 MIT 에 기증한 OpenVision Kerberos Administration System 을 제외한 MIT Kerberos v5 r1.5 를 포함하고 있습니다.

Kerberos 버전 5, 릴리스 1.5.3

릴리스 정보

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 gzcac:

```
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.

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/fixes-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/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_preference_limit typo in krb5.conf man page
- 3490 getpwnam_r status checked incorrectly
- 3502 Cannot acquire initiator cred using gss_acquire_cred with explicit name on Windows
- 3512 updates to NSIS installer for KFW
- 3521 Add configurable Build value to File and Product versions for Windows
- 3549 library double-free with an empty keytab
- 3607 clients/ksu/setenv.c doesn't build on Solaris
- 3620 use strerror_r
- 3668 Prototype for krb5_c_prf missing const
- 3671 shsUpdate should take an unsigned int for length

- 3675 unsigned/signed int warnings in krb5_context variables.
- 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
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lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_seal.c
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lib/gssapi/mechglue/g_store_cred.c
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nss_ldap 2.62

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PCRE 6.3

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WSDL4J 1.5.1

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