

# Apache News Online: Apache Directory

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## 25 July 2008 - Apache Directory Studio 1.2.0 RC1 Now Available

[The Apache Directory Team](#) is pleased to announce the release of Apache Directory Studio 1.2.0 RC1, a major update of its Eclipse based LDAP Browser and Directory client. You can download Apache Directory Studio 1.2.0 RC1 as a standalone RCP application for Mac OS X, Linux and Windows here:

<http://directory.apache.org/studio/downloads.html> You can also install it directly in Eclipse using this update site: <http://directory.apache.org/studio/update/1.x/> Here are a few highlights of this new version: \* The new Apache DS feature makes its introduction in Apache Directory Studio. This new feature allows you to run the latest version of Apache DS (1.5.3) from within Apache Directory Studio or Eclipse and makes it super easy (and fast) to create and run an LDAP Server. \* The Apache DS Configuration plugin now supports the 4 latest versions of Apache DS. It's now capable to read/write the server.xml file of an Apache DS 1.5.0, 1.5.1, 1.5.2 and 1.5.3. \* The Search Logs view has been added to the LDAP Browser. \* We've also added the support to use the proxy features of Eclipse inside Studio as well as improved the platform (useful actions have been added to the platform, the Mac OS X application now respects the standards of Apple for the "About" and "Preferences" actions, etc.). \* We've also fixed some bugs dealing with schema files and schema parsing in the Schema Editor and LDAP Browser plugins. Developed as a sub-project of the Directory Top Level Project, Apache Directory Studio is an Eclipse RCP application that takes full advantage of the benefits inherent in the Eclipse platform. Composed of several Eclipse (OSGi) plugins, Apache Directory Studio can be easily upgraded with additional plugins. Apache Directory Studio plugins can even run within a full installation of Eclipse itself. Apache Directory Studio contains 6 major features: \* an LDAP Browser feature \* an LDIF Editor feature \* an ACI Editor feature for Apache Directory Server \* a Schema Editor feature \* an Apache DS feature \* an Apache DS Configuration feature For more information about Apache Directory Studio, see our website: <http://directory.apache.org/studio> Below are the JIRA issues that were resolved since the release of Apache Directory Studio 1.2.0 RC1: Bug \* [DIRSTUDIO-89] - Entry painted even though not created in server \* [DIRSTUDIO-121] - Some property pages make the dialog very tall \* [DIRSTUDIO-157] - Studio loses STRG-V over some time of use \* [DIRSTUDIO-209] - Cannot expand attribute list \* [DIRSTUDIO-266] - OpenLDAP schema files parser fails when DESC contains an empty string " \* [DIRSTUDIO-273] - Unable to get Base DN's on OID (Oracle Internet Directory) \* [DIRSTUDIO-298] - NullPointerException raised when drag'n'dropping a connection to a folder (on Mac OS X only) \* [DIRSTUDIO-315] - Choosing new value, in entry editor shows new entry when server error occurs \* [DIRSTUDIO-318] - Rename of multi-values RDN

does not work when changing the second RDN \* [DIRSTUDIO-319] - LDAP Browser creating new entry becomes empty and unusable in Windows Vista after certain actions \* [DIRSTUDIO-323] - Studio fails to read ApacheDS server.xml \* [DIRSTUDIO-325] - Keybinding conflicts occurred. They may interfere with normal accelerator operation. \* [DIRSTUDIO-326] - Non-Operational attributes are marked as operational when bind to Siemens DirX 7.0 \* [DIRSTUDIO-330] - CoreException raised in editor when opening a \*.txt file \* [DIRSTUDIO-336] - Errors when parsing schema of some LDAP servers \* [DIRSTUDIO-341] - Paste error \* [DIRSTUDIO-342] - Relax the parser for the \*.schema files \* [DIRSTUDIO-343] - Referrals not handled. \* [DIRSTUDIO-347] - Keybinding conflict for CTRL+Q \* [DIRSTUDIO-349] - Unable to enter large values for uid \* [DIRSTUDIO-350] - DS is not properly displaying case of group DN Improvement \* [DIRSTUDIO-46] - Add connections import/export \* [DIRSTUDIO-126] - Triple click to edit attribute \* [DIRSTUDIO-295] - Add a console for errors \* [DIRSTUDIO-329] - Replace internal URL class by shared-ldap LdapURL class \* [DIRSTUDIO-337] - Add Save and Print actions in the toolbar of the RCP application New Feature \* [DIRSTUDIO-321] - Need to be able to set SOCKS proxy in the RCP version \* [DIRSTUDIO-328] - Search Logs View Task \* [DIRSTUDIO-128] - Replace internal schema parser with the schema parser in shared-ldap. \* [DIRSTUDIO-317] - Update legal files after moving to Apache Directory Shared LDAP version 0.9.9 \* [DIRSTUDIO-332] - Add support for 1.5.3, 1.5.2 and 1.5.0 server.xml configuration files \* [DIRSTUDIO-338] - Update Eclipse dependencies to the latest Eclipse version (3.3.2) \* [DIRSTUDIO-339] - Add the 'org.eclipse.ui.carbon' Eclipse plugin to the Mac OS X distribution ---- [-- The Apache Directory Team](#)

**Note:**

Apache Directory -- Posted by [Tetsuya Kitahata](#) at [2008-07-25T14:38:40](#)

## 21 July 2008 - Apache Directory Server 1.5.3 Released

[The Apache Directory team](#) is pleased to announce the release of ApacheDS 1.5.3. ApacheDS is an embeddable directory server entirely written in Java, which has been certified LDAPv3 compatible by the Open Group. Besides LDAP it supports Kerberos 5 and the Change Password Protocol. It has been designed to introduce triggers, stored procedures, queues and views to the world of LDAP which has lacked these rich constructs. This version is mainly a bug fix version, which also bring some new installers (for Solaris and tar.gz installers), more performance, and NTLM authentication (some external package must be downloaded). 40 issues has also been fixed since the last release, 1.5.2. ADS 1.5.3 is not a definitive version, as we are working in an unstable branch, and there may be some modification in the

configuration or features in the next 1.5.x versions. However, this is the most stable version of the Apache Directory Server. The latest release is now available here: <http://directory.apache.org/apacheds/1.5/downloads.html> If you have any questions, please consult: - the web site: <http://directory.apache.org> - the mailing lists: <http://directory.apache.org/community%26resources/mailling-lists-and-irc.html>

Changelog for ApacheDS 1.5.3 ===== Bugs : -----

DIRSERVER-768 : provide debug output in  
org.apache.directory.server.core.authn.AuthenticationService.checkAuthenticated()  
DIRSERVER-1031 : no credentials required to shut down server from in-vm  
DIRSERVER-1085 : Modify.RENAME operation may not work well with multiple attributes RDN  
DIRSERVER-1087 : Installer init script does not start default instance on startup.  
DIRSERVER-1089 : ConcurrentModificationException problem in org.apache.directory.shared.ldap.message.AttributesImpl  
DIRSERVER-1109 : Failure to create entry with Rdn starting with hash (#)  
DIRSERVER-1112 : ApacheDS installer creates redundant server.xml file  
DIRSERVER-1118 : Cannot have two partitions dc=example,dc=com and dc=carrefour,dc=com at the same time.  
DIRSERVER-1151 : Cannot have multiple instance in-process listening on different sockets / ports  
DIRSERVER-1157 : Deleting Alias entry failure  
DIRSERVER-1162 : Moddn with mulit-valued RDN mangles the entry  
DIRSERVER-1166 : a lot of Persistent searches may exhaust the available threads  
DIRSERVER-1168 : StartTLS API activation not Working with addExtendedOperationHandler()  
DIRSERVER-1171 : Improper use of SASL mechanisms and simple binds  
DIRSERVER-1175 : Binary installer removes '/root' partition under certains circumstances  
DIRSERVER-1180 : NPE and hanging search request when using a filter with empty substring sequence  
DIRSERVER-1182 : SchemaServiceIT tests are broken  
DIRSERVER-1188 : Windows Installer corrupts Windows when uninstalling.  
DIRSERVER-1196 : Filter with special characters crashes JVM  
Improvements : -----  
DIRSERVER-478 : Standarzied serialization and deserialization of Name, Attribute, and Attributes.  
DIRSERVER-610 : Need to simplify process for changing admin password  
DIRSERVER-986 : Implement a new LDAP Filter parser  
DIRSERVER-1084 : Effective userid needs to be more flexible (per instance)  
DIRSERVER-1124 : Reduce log ERROR to WARN to avoid startup and shutdown noise as replicas connect/disconnect  
DIRSERVER-1125 : Use the rat maven plugin with the -Prelease profile option to generate releases  
DIRSERVER-1147 : Improve Search request with selected attributes  
DIRSERVER-1163 : Sys-V-Init script lacks LSB header  
New Features : -----  
DIRSERVER-674 : Support for directory.service.type as a JNDI parameter  
DIRSERVER-676 : Provide a method for gathering a handle on root DSE on behalf of any principal  
DIRSERVER-1189 : Configuration option for confidentiality: requiring TLS secured connections for

performing requests DIRSERVER-1190 : Add a PKG installer for Solaris Tasks :  
----- DIRSERVER-1053 : Review server-tools project DIRSERVER-1197 : Add  
Apache License headers to installer files with their specific syntax for comments  
Wish : ----- DIRSERVER-931 : Provide a zip/tar.gz download for DS The Apache  
Directory team is also pleased to announce the release of Apache Directory Shared  
0.9.11, its directory-related library used by Apache DS and Apache Directory Studio.  
Changelog for Apache Directory Shared 0.9.11

===== Bugs : -----  
DIRSHARED-2 : Second ATAV of a multi-valued RDN is not handled correctly in  
Rdn.compareTo() method DIRSHARED-3 : Rdn.compareTo() method is not  
invertable DIRSHARED-9 : Rdn.equals() and Rdn.comparTo() don't work correctly  
for multivalued RDNs Improvements : ----- DIRSHARED-7 : Add setters to  
LdapURL class DIRSHARED-8 : Merge schema grammars and relax schema parser  
DIRSHARED-10 : Add support for OpenLDAP object identifier macros The Apache  
Directory Team

**Note:**

Apache Directory -- Posted by [Tetsuya Kitahata](#) at 2008-07-21T20:32:13

## 18 April 2008 - Apache DS 1.5.2 Released

The Apache Directoy Project is pleased to announce the next feature introduction release of ApacheDS. The 1.5.x branch is intended for new feature additions which may potentially destabilize the server. However this is by far still one of the most stable releases we've had. There are several bug fixes and new features that have been incorporated into the 1.5.2 release: Notable Features ----- o New schema aware ServerEntry API o New improved installers for more platforms o Zero configuration StartTLS and LDAPS o DIT backed server certificate management o ChangeLog service, snapshotting and state rollback o Faster integration tests o Support password hashing for Administrator o Restart no longer needed for Administrator password changes o Support for different Kerberos encryption types with GSSAPI Closed JIRA Issues ----- Bug DIRSERVER-1149 Removing a non existing value of an attribute removes one of this attribute's values Bug DIRSERVER-1083 Search on an custom attribute added to the dynamic schema fails when no result is found Bug DIRSERVER-1064 Admin password cannot be hashed Bug DIRSERVER-1062 MaxValueCollection protectedItem is not working properly for access control Bug DIRSERVER-1055 Reading cn=schema doesn't return all requested attributes Bug DIRSERVER-1047 Concurrency issues in the nexus partition lead to race conditions with unbind requests on shutdown. Bug DIRSERVER-1026 Metaschema ObjectClass

description is incorrect Bug DIRSERVER-990 2 objects of the Apache DS Schema share the same OID Bug DIRSERVER-957 OOM when adding a lot of entries Bug DIRSERVER-915 Hot Partitions Throw Exceptions for Normal JNDI Operations Bug DIRSERVER-871 NPE when running ADS in eclipse from time to time Bug DIRSERVER-782 Restart required after changing password Bug DIRSERVER-646 Replacing an unknown attribute with no values (deletion) causes an error New Feature DIRSERVER-1066 Add change log interceptor as optional interceptor New Feature DIRSERVER-869 Add Start TLS support Test DIRSERVER-1123 Test cases for JdbmNoDupsCursor Task...

**Note:**

Apache Directory -- Posted by [Tetsuya Kitahata](#) at 2008-04-18T02:35:03

## 08 April 2008 - Apache Directory Studio 1.1.0 Released

The Apache Directory Team is pleased to announce the release of Apache Directory Studio 1.1.0, the first major update of its Eclipse based LDAP Browser and Directory client.

You can download Apache Directory Studio 1.1.0 as a standalone RCP application for Mac OS X, Linux and Windows here:

<http://directory.apache.org/studio/downloads.html>

You can also install it directly in Eclipse using this update site:

<http://directory.apache.org/studio/update/1.x/>

Developed as a sub-project of the Directory Top Level Project, Apache Directory Studio is an Eclipse RCP application that takes full advantage of the benefits inherent in the Eclipse platform. Composed of several Eclipse (OSGi) plugins, Apache Directory Studio can be easily upgraded with additional plugins. Apache Directory Studio plugins can even run within a full installation of Eclipse itself.

Apache Directory Studio contains 5 major features:

- an LDAP Browser Plugin
- an LDIF Editor Plugin
- an ACI Editor Plugin for Apache Directory Server
- a Schema Editor Plugin
- an Apache DS Configuration Plugin

For more information about Apache Directory Studio, see our website:

<http://directory.apache.org/studio>

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## **[-- The Apache Directory Team](#)**

### **Note:**

Apache Directory -- Posted by [Tetsuya Kitahata](#) at [2008-04-08T02:50:23](#)

## **04 March 2008 - Apache Directory Studio 1.1.0 RC2 Now Available**

[The Apache Directory Team](#) is pleased to announce the release of [Apache Directory Studio 1.1.0 RC2](#), the second release candidate for the version 1.1.0 of its Eclipse based LDAP Browser and Directory client.

You can download Apache Directory Studio 1.1.0 RC2 as a standalone RCP application for Mac OS X, Linux and Windows here:

<http://directory.apache.org/studio/downloads.html>

You can also install it directly in Eclipse using this update site:

<http://directory.apache.org/studio/update/1.x/>

Developed as a sub-project of the Directory Top Level Project, Apache Directory Studio is an Eclipse RCP application that takes full advantage of the benefits inherent in the Eclipse platform. Composed of several Eclipse (OSGi) plugins, Apache Directory Studio can be easily upgraded with additional plugins. Apache Directory Studio plugins can even run within a full installation of Eclipse itself.

Apache Directory Studio contains 5 major features:

- an LDAP Browser Plugin
- an LDIF Editor Plugin
- an ACI Editor Plugin for Apache Directory Server
- a Schema Editor Plugin
- an Apache DS Configuration Plugin

For more information about Apache Directory Studio, see our website:

<http://directory.apache.org/studio>

Below are the JIRA issues that were resolved since the release of Apache Directory Studio 1.1.0 RC:

### Bug

- [DIRSTUDIO-286] - Update Site is not working, missing dependencies in Idifeditor, ldapbrowser and schemaeditor feature

- [DIRSTUDIO-285] - Export into LDIF format could be corrupted
- [DIRSTUDIO-284] - Changing "Supported Authentication Mechanism" doesn't set the dirty flag.
- [DIRSTUDIO-281] - LDIF and Apache DS configuration files can't be saved in RCP mode
- [DIRSTUDIO-279] - Filter Editor doesn't remove spaces and line breaks after OK
- [DIRSTUDIO-270] - Copy and paste does not work when value being edited

#### Task

- [DIRSTUDIO-280] - Remove remaining unwanted contributions from Eclipse

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### **[-- The Apache Directory Team](#)**

#### **Note:**

Apache Directory -- Posted by [Tetsuya Kitahata](#) at [2008-03-04T13:37:43](#)

### **21 September 2007 - Apache Directory Studio 1.0.1 has been released**

[Apache Directory Project](#) announced the release of [Apache Directory Studio 1.0.1](#), the latest version of its Directory and LDAP related tooling platform written in Java and based on Eclipse technologies.

This release fixes some issues in the LDAP Browser plugin and adds documentation for the Schema Editor plugin.

The changelog can be viewed here:

<http://directory.apache.org/studio/changelog.html>

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### **[-- Apache Directory Project](#)**

#### **Note:**

Apache Directory -- Posted by [Tetsuya Kitahata](#) at [2007-09-21T20:54:39](#)

### **21 September 2007 - Apache Directory Studio 1.0.1 has been released**

[The Apache Directory Project](#) announced the release of [Apache Directory Studio 1.0.1](#), the latest version of its Directory and LDAP related tooling platform written in

Java and based on Eclipse technologies.

This release fixes some issues in the LDAP Browser plugin and adds documentation for the Schema Editor plugin.

The changelog can be viewed here:

<http://directory.apache.org/studio/changelog.html>

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### **[-- The Apache Directory Project](#)**

**Note:**

Apache Directory -- Posted by [Tetsuya Kitahata](#) at [2007-09-21T20:54:39](#)

## **04 September 2007 - Apache Directory Server 1.5.1 released**

The Apache Directory Server community is pleased to announce the release of Apache Directory Server version 1.5.1. The release is available for download at:

<http://www.apache.org/dyn/closer.cgi/directory/apacheds/unstable/1.5/1.5.1>

The Apache Directory Project provides directory solutions entirely written in Java. These include a directory server, which has been certified as LDAP v3 compliant by the Open Group (<http://directory.apache.org/community%26resources/open-group-certification.html>), and Eclipse-based directory tools (Apache Directory Studio).

Apache Directory Server 1.5.1 is a bug fix release, fixing more than 60 bugs and adding 40 improvements. .

For more information, see the Apache Directory Server website at:

<http://directory.apache.org>

**Note:**

Apache Directory -- Posted by [Tetsuya Kitahata](#) at [2007-09-05T02:10:20](#)

## **26 May 2007 - ApacheDS (Directory Server) 1.0.2 Now Available**

The 1.0.2 release of ApacheDS is now available. Native installers for several operating systems (Solaris, Mac OS X, Linux, Windows) can be downloaded [here](#).

This is a bug fix release.

**Note:**

Apache Directory -- Posted by [Tetsuya Kitahata](#) at [2007-05-26T21:55:07](#)

## 04 May 2007 - Apache Directory LDAP Studio 0.8.0 released

[Apache Directory Project](#) today announced the release of Apache LDAP Studio 0.8.0, the latest version of its LDAP-related tooling platform written in Java and based on Eclipse technologies.

Many bugs have been fixed and a lot of improvements have been made since the last release (0.7.0).

**Note:**

Apache Directory -- Posted by [Tetsuya Kitahata](#) at [2007-05-04T21:57:50](#)

## 12 April 2007 - ApacheDS (Directory Server) 1.5.0 Now Available

[The Apache Directory developers](#) are very pleased to announce the release of ApacheDS 1.5. Many bugs have been fixed and a lot of improvements have been made.

Main innovations:

- switch to Java 1.5
- dynamic schema
- Multi-Master replication

Native installers for several operating systems (Solaris, Mac OS X, Linux, Windows) can be downloaded [here](#).

**Note:**

Apache Directory -- Posted by [Tetsuya Kitahata](#) at [2007-04-12T22:00:15](#)

## 04 April 2006 - Apache MINA 0.9.3: A Network Application Framework

[The Apache Directory project team](#) is proud to announce the release of [MINA](#), a network application framework, version 0.9.3.

Apache MINA (Multipurpose Infrastructure for Network Applications) is a network application framework which helps users develop network applications easily by providing abstractions of network and protocol I/O layers. [The MINA project website](#) includes resources such as an introductory presentation ( [PPT \(with animations\)](#) or [PDF \(without animations\)](#)) and an [implementation demo movie](#). Additionally, [6 examples](#) are provided to help you learn MINA even under serious time constraint.

#### Feature List:

- Abstract API which supports various transport types (TCP and UDP)
- Very easy to learn
- Unit test friendly
- In-VM pipe communication
- Extensible ByteBuffer pooling mechanism
- Various thread model
- Support for SSL/TLS including StartTLS
- Support for stream compression using JZLib
- Support for both text-based and binary protocols
- Support for stream-based I/O
- Integration with Spring framework

#### Changes since 0.9.2:

- Stream compression filter using JZLib
- Much easier way to specify a thread model
- Support for ByteBuffer.duplicate (), slice(), and asReadOnlyBuffer()
- Several bug fixes

The Apache Directory project team is always open for your feedback. Please let us know what you think about MINA.

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**[-- The Apache Directory project team](#)**

#### Note:

Apache Directory -- Posted by [Tetsuya Kitahata](#) at [2006-04-04T15:31:38](#)

## 23 December 2005 - Apache MINA 0.9 Released: A Network Application Framework

[The Apache Directory team](#) has announced the release of [MINA](#), a network

application framework, version 0.9.

Apache MINA (Multipurpose Infrastructure for Network Applications) is a network application framework which helps users develop network applications easily by providing abstractions of network and protocol I/O layers. [The MINA project website](#) includes resources such as an introductory presentation ([PPT/PowerPoint](#) (with animations) or [PDF](#) (without animations)) and an implementation demo [movie](#). Additionally, [6 examples](#) are provided to help you learn MINA even under serious time constraint.

#### Feature List:

- Abstract API which supports various transport types (TCP and UDP)
- Very easy to learn
- Unit test friendly
- Extensible architecture
- In-VM pipe communication
- Built-in leader-followers thread pool
- Support for SSL/TLS including StartTLS
- Support for text-based protocols
- Support for stream-based I/O

#### Changes since 0.8.x:

- Revamped the overall API reflecting user feedback
- More utility classes and methods
- Support for StartTLS
- Out-of-the-box protocol codecs which helps rapid implementation:
  - Object serialization codec
  - Text line codec
- A user can specify the number of NIO Selector threads, which can improve the performance when running on a multi-processor machine.

The Apache Directory project team is always open for your feedback. Please let us know what you think about MINA.

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**[-- The Apache Directory team](#)**

#### Note:

Apache Directory -- Posted by [Tetsuya Kitahata](#) at [2005-12-23T09:52:27](#)

## 10 November 2005 - Apache MINA 0.8.1 Released

The Apache Directory project released the version 0.8.1 of Apache MINA, a network application framework. -- ([read more](#))

### Note:

Apache Directory -- Posted by [Tetsuya Kitahata](#) at [2005-11-10T17:46:31](#)

## 12 May 2005 - ApacheDS 0.9 Released: An Enterprise Directory Server Platform

The Apache Directory team is pleased to announce the release of [ApacheDS](#) 0.9, a pure-Java LDAP server.

Our primary vision is to build an enterprise directory server platform and its components where other Internet services snap in to store their data within the directory so they may be managed using LDAP. Those services include LDAP itself, DNS, DHCP, SLP, UDDI, NTP, and most importantly Kerberos, which can integrate with the services to provide full-featured network authentication service.

### Features:

- Designed as an LDAP and X.500 experimentation platform.
- The server exposes all aspects of administration via a special system backend.
- Both the backend subsystem and the frontend are separable and independently embeddable.
- Provides a server side JNDI LDAP provider which directly interacts with the backend storage.
- Powered by MINA which can handle large amounts of concurrency.

### Changes in 0.9:

- Added a Kerberos plugin which provides a full Kerberos V service
- Customizable authentication
- Replaced APSEDA with MINA
- Revamped interceptor interfaces and implementations
- Added Samba / DHCP schema
- Refactored and cleaned up APIs in general
- Fixed numerous bugs

The Apache Directory team is looking for developers and users to work with the server and give feedback. Mailing list information is at:

<http://directory.apache.org/mailling-lists.html>

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## **[-- The Apache Directory Project](#)**

### **Note:**

Apache Directory -- Posted by [Tetsuya Kitahata](#) at 2005-05-12T15:38:19

## **09 March 2005 - The Apache Directory Project Exits Incubator**

[The Apache Directory team](#) proudly announces the [Apache Directory project](#) graduated [incubation](#) under [the Apache Software Foundation](#) (ASF) according to the ASF Board Summary for February 23, 2005.

Our primary vision is to build an enterprise directory server platform (Apache Directory Server) and its components where other Internet services snap in to store their data within the directory so they may be managed using LDAP. Those services include LDAP itself, DNS, DHCP, SLP, UDDI, NTP, and most importantly Kerberos, which can integrate with the services to provide full-featured network authentication service.

### Features of Apache Directory Server:

- Designed as an LDAP and X.500 experimentation platform.
- The server exposes all aspects of administration via a special system backend.
- Both the backend subsystem and the frontend are separable and independently embeddable.
- Provides a server side JNDI LDAP provider which directly interacts with the backend storage.
- Powered by MINA, a powerful framework for building Internet protocol servers.

### Coming soon:

- Remote management via JMX.
- Java-based triggers and stored procedures.

The Apache Directory team is looking for developers and users to work with the server and give feedback. Mailing list information is at:

<http://directory.apache.org/mailling-lists.html>

Check the Apache Directory project at: <http://directory.apache.org/>

The Apache Software Foundation provides organizational, legal, and financial

support for a broad range of open source software projects. The Foundation provides an established framework for intellectual property and financial contributions that simultaneously limits contributors potential legal exposure. Through a collaborative and meritocratic development process, Apache projects deliver enterprise-grade, freely available software products that attract large communities of users.

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[-- The Apache Directory Team](#)

**Note:**

Apache Directory -- Posted by [Tetsuya Kitahata](#) at [2005-03-09T13:15:44](#)