

## Alfresco JLAN Server Features

- ❖ Provide file system access to your applications
  - Windows Network Share (CIFS/SMB)
  - NFS
  - FTP
- ❖ Support virtually any platform
  - 100 % Java-based
- ❖ Modular Plug-in Architecture
  - Authentication
  - Storage
  - Database
- ❖ Easy to integrate
  - Off-the-shelf drivers for MySQL and Oracle
  - Sample code
- ❖ Flexible Authentication
  - AIFS Native Authentication
  - Active Directory
  - Samba
  - Plug-ins
- ❖ Standards Support
  - 100% Java
  - FTP
  - NTLM
  - Kerberos/Active Directory
  - NFS v3

## Alfresco JLAN Server

The Alfresco JLAN Server is an embedded virtual file system that looks and behaves just like a shared drive to the end user. This is transparent to the user with no client installation required on the desktop.

JLAN allows you to give users file system-based access to content used by your application. Users can continue to use the familiar file system based tools such as Windows Explorer to browse folders and documents, drag-n-drop files from their desktop and open/save files directly from their desktop applications. Your solution can capture these events and seamlessly manage the document within your existing application. All without any client side installation.

Technically, JLAN provides a virtual file system interface that allows you to plug in your own file system implementation with the core JLAN server handling all of the network protocol exchange between the client and server. JLAN is also the only Java implementation of Window's CIFS (Common Internet File System also known as Server Message Block (SMB)), and also supports NFS and FTP.

### Platform Independent

JLAN is a 100% Java implementation which allows it to support virtually any server platform. JLAN can co-exist with existing file servers without requiring dedicated servers.

- Provide network file system access to your application irrespective of client or server platform
- Pure Java implementations of CIFS, JLAN and FTP server, with optional JNI code on Windows to allow the CIFS server to run alongside the Windows file server

### High Performance

Alfresco JLAN offers performance comparable to a native file system. Intelligent caching and multi-threaded optimization providing high performance and scalability.

### Flexible Implementation Options

JLAN is built using a modern modular, pluggable architecture. You can choose which types of file systems you want to support and plug in your own services, such as authentication or file storage.

- Allows a filesystem driver to be developed in stages with optional interfaces added at a later date, such as NTFS streams support
- Many core components can be easily replaced including filesystem drivers, authentication handling, user details, shared filesystem mapping, and configuration



## Licensing Information

Alfresco offers the following JLAN license options:

- ❖ End user or developer license that allows companies to use JLAN for internal deployments
- ❖ OEM license that allows organizations to add JLAN features and functionality to their products

## Contact Alfresco

Alfresco Software Inc., 428 University Avenue, Palo Alto, CA 94301, USA

Telephone: 877-415-0053

Alfresco Software, Park House, Park Street, Maidenhead, Berkshire, SL6 1SL, UK

Telephone: +44 1628 860 500  
Fax: +44 870 868 1233

[info@alfresco.com](mailto:info@alfresco.com) [www.alfresco.com](http://www.alfresco.com)

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## Database Filesystem Driver

A framework is provided to allow a database to be JLAN enabled. Content and data can be managed in the database directly or using a combination of database and filesystem storage.

- Sample implementations are provided for MySQL and Oracle
- Includes a database file system driver implementation with sample interfaces to MySQL, Derby and Oracle databases
- The database filesystem design includes the ability to store the file data on disk, in database BLOB fields or in another repository such as a storage server or other datastore
- Includes smart caching to retrieve file data from the repository on demand and store updated files using background threads
- Writing a database filesystem can be as simple as implementing two methods

## Rapid Implementation

Example code is provided to allow rapid integration in your applications. In many cases, it is possible to JLAN enable your application in a matter of hours.

- Includes a portable filesystem driver that uses the java.io.File class to store the file data on the local disk.
- The MySQL, Derby and Oracle database filesystems are all fully working implementations with options to use the local disk or BLOB fields to store the file data.

## Enterprise Authentication

A variety of standard authentication mechanisms are provided allowing user logins to be managed standalone by JLAN or via passthrough to Active Directory or Samba. The JLAN plug-in architecture also enables alternative authentication mechanisms to be easily integrated.

- Out-of-the-box support for NTLM1/2, NTLMSSP, SPNEGO and Kerberos
- Support for Single-Sign On