

Features

by SuperBonBon

1. JAFS Features

This software includes the following features :

- Runs on any **Java 1.4+** compatible platform tested with **most OS JDKs**
- Scripts provided for an easy installation as a **Windows or Linux system service**.
- **J2EE** Application servers **integration**. Supports JBoss, Geronimo or Sun AS.
- **JBIG support** (JSR 208), JAFS events sent on the JBI messaging bus to registered JBI components.
- **HTTP administration console** for server management, SSL or TLS compatible for security, JMX based for scalability. JAAS based for authentication.
- **JMX based administration** of FTP servers and FTP client sessions.
- **Other remote management** with external **JMX (JSR160) compatible administration console** via **JRMP or IIOP connectors**, SSL or TLS based JRMP connector for security. UPnP compatible for RPC NAT traversal. JAAS based for authentication. **JMX SOAP connector** for web services oriented administration. **UPNP JMX connector** to access the JMX interface with the UPNP protocol.
- Easily pluggable **custom JMX connectors**.
- **Powerful asynchronous events engine** with different events publishers : standard console, **JMS** messaging, **JMX** notifications, **Jabber** IM and **E-mail**. Perfectly suitable for Enterprise Application Integration and easily pluggable **new events listeners for custom EAI needs**.
- Generic **Unix syslog** events listener suitable for **IDS** integration, Netgear DG834 proof of concept implementation.
- **Multiple language** support (English and French, others to come) for administration console and server clients sessions output.
- **JAAS** based users authentication realms with different modules like **Windows NT/2K/XP users module** or **RADIUS module** for connection with Radius servers. Easy extendable **others JAAS modules**.
- **One Time Password** (aka **S/KEY**) authentication support.
- Powerful **logging** capabilities using Apache log4j.
- **E-mail** based server activity report (using the events engine).
- [Scripting capability](#) for certain outgoing messages.

- Sound events playback support (new connections, logout ...).
- Daily, weekly and monthly **statistics** for total of files uploaded/downloaded, bytes sent/received and more.
- **FTP** protocol 95% RFC 959 compliant (SMNT,STRU,ALLO,SITE not implemented), tested with most popular ftp clients
- Extremely configurable and designed to be easily extended with new **custom commands**. All protocol commands can be easily reimplemented.
- Server file system directories **search command** and **Wildcard search** support for path or file commands (CWD *some*directory*).
- **Multiple character set** support (CHARSET feature command) for internationalization.
- **On-the-fly compression** (MODE Z) support for data transferts.
- **FTPS** with **SSL and TLS** support for secure FTP transactions with configurable **X509 certificates based access** for high security.
- **Certificate Revocation List** checks to reject revoked X509 certificates.
- Pluggable custom X509 trust managers to check certificate content.
- Use multiple server certificates.
- Multiples **network interfaces** support for communication.
- **IPv6** support for FTP servers and HTTP JMX console.
- **IP Black list** : block certain IP ranges from your server. Shield against undesired visitors.
- PeerGuardian 1 and 2 IP Block list support, one of the most popular IP block list.
- UPnP support for automatic [NAT traversal](#) through UPnP enabled devices. First Java FTP server to bring UPnP support on **any OS** supporting Java.
- Fully working with hosts using **dynamic IP**, such as ADSL based internet access, **DynDNS integrated client** for dynamic IP's updates.
- **Independent filesystem rights** configuration for each files and directories. More available rights than OS rights which follow FTP protocol fonctionnalities.
- Integrated **WHOIS** client using Geektools whois server.
- Site **content list** and news list generator.
- Server side SVF checksum files generation.
- XCRC and MD5 commands support for **files integrity checks** after download/upload.
- Extendable **upload and download filter** to control incoming and outgoing file content.
- Unique feature : [MP3 filter](#) implementation provided to **reject or accept uploaded MP3** files according to user defined settings (minimal bitrate...).
- Read MP3 files properties on the server.
- Server side **M3U files** generator.