

System Requirements for eSearch 3.4

This document describes the pre-requisites for installing and using eSearch 3.4

Supported eSearch Platforms

The following table describes the eSearch supported platforms:

Hardware	Operating System	Supported eSearch Components	Notes
IA-32 x86-64	<ul style="list-style-type: none"> ➤ Windows XP Service Pack 3 (32-bit) ➤ Windows Server 2008 R2 (32-bit, 64-bit) 	Database, App-Server, Web-Server, Desktop, Web-client	32-bit and 64-bit Oracle 10g Standard and Enterprise Editions are supported
IA-32	<ul style="list-style-type: none"> ➤ Windows Vista Business (32-bit) 	Desktop, Web client	Internet Explorer 8 recommended.
IA-32 x86-64	<ul style="list-style-type: none"> ➤ Windows 7 (tested on 64-bit) 	Desktop, Web client <i>(not API or Admin Toolkit)</i>	Internet Explorer 8 recommended.
IA-32	<ul style="list-style-type: none"> ➤ Red Hat Enterprise Linux 5.5 (32-bit only) 	Database, App-Server, Web-Server, Desktop, Web-client	Must be patched to latest O/S level unless otherwise stated. eSearch is certified on 32-bit, untested on 64-bit.
Sun Sparc	<ul style="list-style-type: none"> ➤ Oracle Sun Solaris 10 	Database, App-Server	Only 64-bit Oracle 10g Standard and Enterprise Editions are supported Support for using Solaris will terminate in September 2012.

In all cases, it is important to patch the O/S to the latest patch set, unless otherwise specified.

eSearch Installation Requirements

The eSearch product is comprised of the following components:

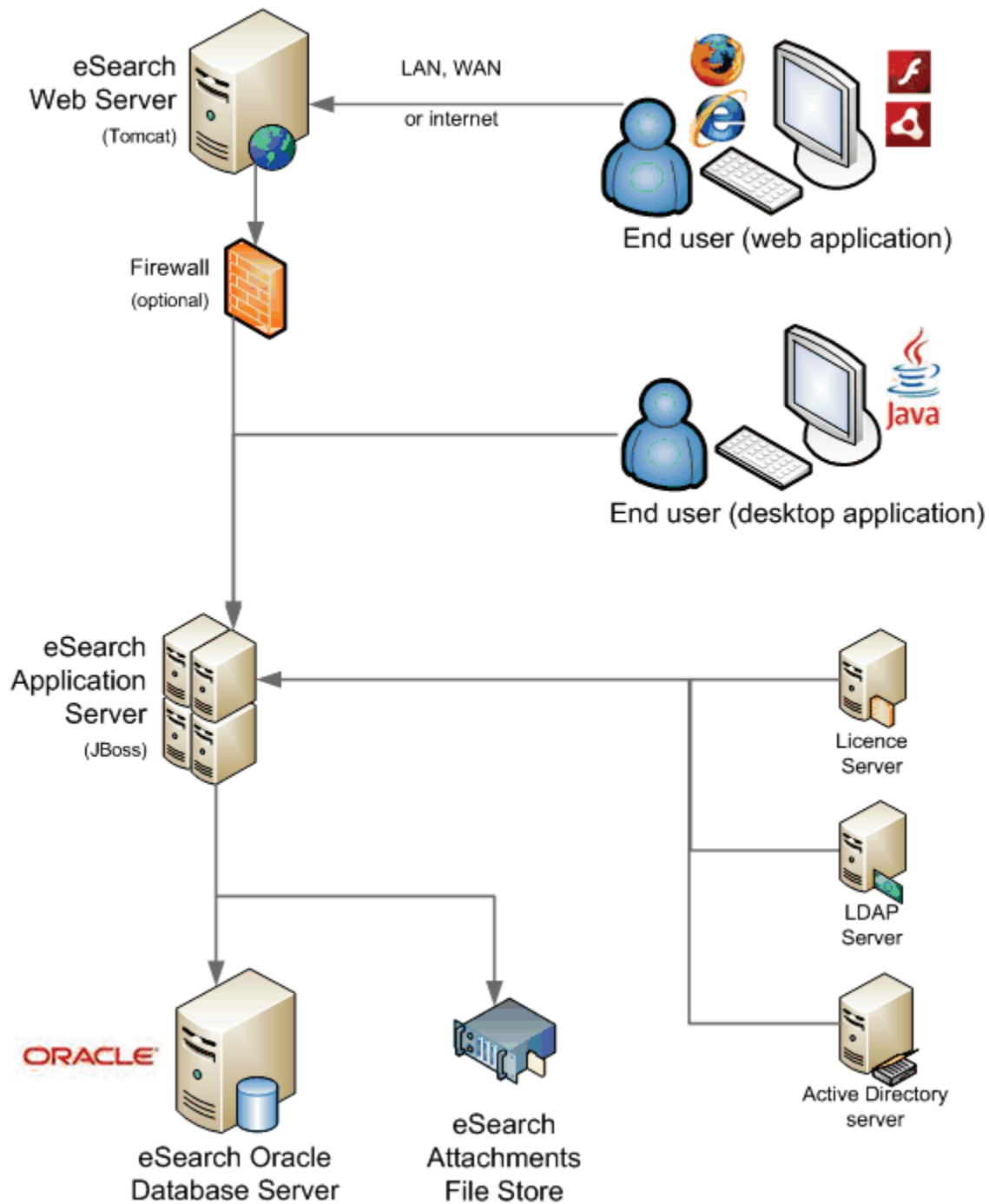
Type	Component	Installation Notes
Client Applications	Desktop Application Data Loader tool Administration Toolkit and API	Installed separately on each workstation where these applications will be used
	Web Application	No installation necessary. Downloads itself from the Web Server when it first runs.
	eSearch Attachment Uploader	Downloaded from the Web Application when needed. See detailed notes below.
Server Components	eSearch Web Server	Installed centrally on server hardware
	eSearch Application Server	Installed centrally on server hardware
	eSearch LDAP Server eSearch Licence Server	Installed centrally on server hardware. Often deployed on the same server as the eSearch Application server or Oracle database
	Database	Oracle 10g Database Server



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eSearch is supplied on optical disc media for Windows and Red Hat Enterprise Linux operating systems, and by digital download for Oracle Solaris.

eSearch Architecture (v3.4 onwards)



For large client deployments, the eSearch desktop application can be deployed onto an application server and distributed to users via services such as Citrix.

Details follow for the system requirements of each component in the above architecture diagram.

eSearch 3.4 Desktop Application

The Desktop application needs to be separately installed on each workstation where it will be used, unless it is being provided to users from an application distribution platform such as Citrix.

This component is fully installed by running the eSearch installers. No pre-requisites are necessary provided the related specifications in this document have been provided.

See the section above entitled ‘Supported eSearch Platforms’ for details of the operating system specifications required to run the Desktop application.

eSearch 3.4 Web Application

The eSearch 3.4 end-user Web application runs inside Adobe Flash Player, and is supported on the following platforms for end-users:

Platform	Operating System	Minimum Supported Browser	Certified* Browser Versions
Windows	<ul style="list-style-type: none"> ➤ Windows XP Service Pack 2 ➤ Windows Vista ➤ Windows Server 2008 ➤ Windows 7 	<ul style="list-style-type: none"> ➤ Microsoft Internet Explorer 8.0 ➤ Mozilla Firefox 2.0 or above ➤ <i>All browsers must have Flash Player 10.1 plug-in installed</i> 	<ul style="list-style-type: none"> ➤ Microsoft Internet Explorer 8 ➤ Mozilla Firefox 3.5 ➤ <i>All browsers must have Flash Player 10.1 plug-in installed</i>
Linux	<ul style="list-style-type: none"> ➤ Red Hat Enterprise Linux 5 	<ul style="list-style-type: none"> ➤ Mozilla Firefox 3.0 or above ➤ <i>All browsers must have Flash Player 10.1 plug-in installed</i> 	<ul style="list-style-type: none"> ➤ Mozilla Firefox 3.0 ➤ <i>All browsers must have Flash Player 10.1 plug-in installed</i>
Mac OS	<ul style="list-style-type: none"> ➤ Mac OS 10.x 	<ul style="list-style-type: none"> ➤ Mozilla Firefox 2.0 or above ➤ <i>All browsers must have Flash Player 10.1 plug-in installed</i> 	<ul style="list-style-type: none"> ➤ Mozilla Firefox 3.0 ➤ <i>All browsers must have Flash Player 10.1 plug-in installed</i>

* Certified version indicates the version Iron Mountain have performed extensive testing on.

eSearch 3.4 Attachment Uploader (ESAU):

The eSearch 3.4 end-user Web application includes a separate utility called eSearch Attachment Uploader (ESAU) for uploading many attachments to eSearch. This ESAU tool is only required for users who have permission to and wish to upload many files or folders to eSearch. Using this tool requires the **Adobe AIR 2.5 or above** runtime to be pre-installed on the end user’s computer.

Third Party Software:

The eSearch 3.4 Web Application uses technology from Adobe that requires the following third party software versions to be installed on each computer being used to run the eSearch Web Application:

Adobe Flash Player 10.1 or above



Adobe AIR 2.5 or above



Installation files for **Adobe Flash Player 10.3** are bundled with the eSearch 3.4 installation under licence from Adobe.

The installation files for **Adobe AIR 2.7** are bundled with the eSearch 3.4 installation media under licence from Adobe.

eSearch 3.4 Web Server

The eSearch 3.4 Web Server is deployed inside a bundled **Apache Tomcat 6.0.18** server, which is fully installed by running the eSearch installers. No pre-requisites are necessary provided the related specifications in this document have been provided.

See the section above entitled 'Supported eSearch Platforms' for details of the operating system specifications required to run the Web Server component.

Note that advanced configurations of Tomcat such as the settings required for deployment behind firewalls, load balancing and customised logging are not provided by the eSearch Installers or Configuration Wizard. Such advanced configurations should only be performed by technical experts familiar with Tomcat technology. For more information see: <http://tomcat.apache.org/tomcat-6.0-doc>

eSearch 3.4 Application Server

The eSearch 3.4 Application Server is deployed inside a bundled **Red Hat JBoss 4.2.3** server, which is fully installed by running the eSearch installers. No pre-requisites are necessary provided the related specifications in this document have been provided.

See the section above entitled 'Supported eSearch Platforms' for details of the operating system specifications required to run the Application Server component.

eSearch 3.4 Licence Server

Every deployment of eSearch requires a valid licence file which specifies how many concurrent users are allowed to use each component of the product. eSearch cannot be installed or used without a valid licence. The eSearch 3.4 Licence Server is deployed inside a bundled **Flexera FlexNet Publisher 10.8.5** server, which is fully installed by running the eSearch installers. No pre-requisites are necessary provided the related specifications in this document have been provided.

eSearch 3.4 LDAP Server

eSearch uses a dedicated LDAP (Lightweight Directory Access Protocol) server to manage connections to Oracle databases, as it is possible to use different Oracle database instances with a single eSearch installation. This is provided by an OpenLDAP database bundled with the installation of eSearch. This open source LDAP server supplied has been compiled to work on the supported platform environments only, and eSearch is currently configured to work exclusively with this bundled OpenLDAP instance.

Active Directory Integration

eSearch can optionally authenticate user access against a Microsoft Active Directory server, enabling users to sign into eSearch using the same credentials as their Windows network login. The configuration necessary for this integration is performed during the installation of eSearch.

eSearch 3.4 Database Server

A pre-installed and pre-configured Oracle 10g Database Server must be available prior to installing eSearch. **Oracle** is not supplied with the eSearch Software. Customers will need to purchase the appropriate Oracle product and necessary licences. Refer to the appropriate Oracle Installation Guide for additional system requirements.

Recommended Hardware Specifications

The following table lists the hardware specifications required to install and run the components of an eSearch installation. Ensure compliance with these specifications before attempting to install eSearch:

Component	Function and Purpose	Minimum Spec	Recommended Spec
Software Installer		512MB RAM. Single Core processor 2.0GHz or above. 500MB free disk space and 500MB temp space free	2GB RAM. Dual Core processor 2.0GHz or above. 1GB free disk space and 500MB temp space free
Database Server	Oracle 10.2.0.3/.4/.5 (any version of 10.2.0 is supported). Installation of Oracle Database Server itself must be completed by competent specialists prior to installing eSearch database components. Oracle 11g is not supported for this release	1GB RAM. Dual Core processor 2.0GHz or above. 4GB free disk space. Virtual memory should be double the amount of RAM	2GB RAM. Quad Core processor 2.0GHz or above. > 4GB free disk space. Virtual memory should be double the amount of RAM
Application Server	Uses Red Hat JBoss technology, bundled with eSearch installation, and fully installed & configured by the eSearch install process.	512MB RAM + 1MB per each concurrent user. Single Core processor 2.0GHz or above. 500MB free disk space	1GB RAM + 5MB per concurrent user (recommend 2GB). Dual or Quad Core processor 2.0GHz or above. > 500MB free disk space
Web Server	Uses Apache Tomcat technology, bundled with eSearch installation. Default settings are fully installed and configured by the eSearch install process, but advanced configuration requires an expert understanding of Tomcat deployment configurations. The web server supports HTTP protocol by default, and can be configured to support SSL traffic over HTTPS, and firewall operations.	512MB RAM + 1MB per each concurrent user. Single Core processor 2.0GHz or above. 500MB free disk space	1GB RAM per concurrent user (recommend 2GB). Dual or Quad Core processor 2.0GHz or above. > 500MB free disk space
Desktop Application	Uses Oracle Java technology, bundled with eSearch installation	512MB RAM. Single Core processor 2.0GHz or above. 200MB free disk space	1GB RAM. Dual Core processor 2.0GHz or above. > 500MB free disk space
Web Client Application	Uses Adobe Flash technology, Requires Flash Player plug-in and optionally Adobe AIR runtime.	512MB RAM. Single Core processor 2.0GHz or above. 200MB free disk space	1GB RAM. Dual Core processor 2.0GHz or above. > 500MB free disk space

Notes

- CPU Requirements below are given in Intel processor speeds.
- The Sun Sparc equivalents can be obtained from sites such as www.spec.org.
- Please also note that installers should at least double the disk space requirements for the installation process to be carried out. This is due to the software being compressed on the installation Media. This space can be reclaimed after the installation has completed.
- Windows disk requirements are for FAT32 formats.
- The specifications given are suitable for a small five user licence installation.