u.achieve® Degree Audit Suite

Hardware and Memory Specifications Overview

**1.0 Supported Systems**

Below are versions of components on which CollegeSource software can be run successfully. It is possible some combinations of these may require additional assistance from CollegeSource to get final configuration in place.

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| --- | --- | --- | --- |
| **Server Components** | **u.achieve® Degree Audit**  **server** | **u.direct® Academic Planner** | **Self Service, Security & Batch modules** |
| Operating System ***1*** | UNIX, Linux or Microsoft | UNIX, Linux or Microsoft | UNIX, Linux or Microsoft |
| Java ***2*** | Java SE 6, 7 | Java SE 6, 7 | Java SE 6, 7 |
| Web Server  *Apache Tomcat*  *Weblogic*  *Websphere*  *Oracle Apps Server*  *JBoss*  *Jetty* | n/a  “  “  “  “  “ | V6, 7  v9.0  v6.1  v10g  v4.2 | v6, 7  v9.0, 10  v6, 7  v10g  v4, 5  v6, 7 |
| **Disk Space** |  |  |  |
| Installation | 50MB | 100MB | 100MB |
| **Database** |  |  |  |
| Oracle | 10g, 11g | 10g, 11g | 10g, 11g |
| MS SQL | 2000, 2005, 2008 | 2000, 2005, 2008 | 2008, 2012 |
| DB2 | UDB 7.x, 8.2, 8.3 |  |  |
| **Web Browser** |  |  |  |
| Internet Explorer | n/a | v8,9 | V8, 9 |
| Firefox ***3*** | n/a | Y | Y |
| Chrome ***3*** | n/a | Y | Y |
| Safari | n/a | v5 | V5 |

***1*** Operating System must be Java SE 6 certified

(<http://www.oracle.com/technetwork/java/javase/system-configurations-135212.html>)

***2*** *The u.achieve Suite is written entirely in Java, and only requires a java compiler if customizations are*

*made to the application.*

***3*** *Firefox & Chrome are updated frequently, so no specific version numbers are listed. No compatibility*

*issues are known with these browsers.*

# u.achieve Server

### **System requirements**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Server Component** | **Supported Platforms** | | Java | Java SE 6 or Java SE 7 | | Operating System | The u.achieve server will run on any operating system where one of the supported Java versions is available. We test on Windows (Server 2003, XP, Vista), Mac OS X, Linux (Red Hat), and Solaris. |      |  |  | | --- | --- | | **Database** | **Support Platforms** | | Oracle | 9i, 10g, 11g | | Microsoft SQL Server | 2000, 2005, 2008 | | DB2 | 7.1, 8.2, 8.3 |      |  |  | | --- | --- | | **Disk Space** | **Considerations** | | Installation\* | 50Mb |   \*This is the physical size of the initial installation; This does not take into account the size of database information, or log files that the u.achieve Server creates. |

## Other Hard Drive Memory Requirements

### Log Files

The u.achieve server creates log files during normal processing, specifically for its functionality as well as for each individual audit that it creates.

* A typical audit log file running in debug mode is 1 MB per audit.
* A typical audit log file running in “warning only” mode is 2 KB.

These log files will remain in the Log Directory of the u.achieve server until they are manually purged.

The amount of disk space required depends on the log level, number of audits run per day, and how often this temp directory is purged.

### Database Memory

Each audit report is 10-50 KB in size.  The size of your encoding data and JOB\_QUEUE data storage varies from institution to institution.

<Physical Memory Estimation for Average School Size>

# u.achieve Web Application Suite

## Java Virtual Machine Memory Requirements

With the full u.achieve suite (u.achieve Self-Service, u.direct and CollegeSourceSecurity [Dashboard], and u.select connector), we suggest the JVM be given at **least** the following settings:

-Xms128m –Xmx1024m -XX:MaxPermSize=256m

Most clients end up with the following JVM settings:

-Xms128m –Xmx2048m -XX:MaxPermSize=512m

Some clients have gone as high as the following:

-Xms128m –Xmx4096m -XX:MaxPermSize=512m

## Physical Machine (or Virtual Machine) Memory Requirements

<Need Information>

## Application Specific Requirements

### u.achieve Self-Service

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| --- | --- |
| Requirement | Minimum Version |
| u.achieve Server | version 4.1 or higher |
| redLantern/CollegeSource Security / Dashboard | version 2.0 or higher. (This is not the same security application that was used with DARSweb.) |
| Java | Same as listed for the u.achieve Server |
| Database | Same as listed for the u.achieve Server |
| Servlet Container | Java Servlet Container implementing the Servlet 2.4 API and JSP 2.0 API.  Examples:   * Tomcat 5.5, 6, 7 * Jetty 6, 7 * Jboss 4.2, 5 * BEA Weblogic 10 * IBM WebSphere 7 * OC4J 10g R3 (10.1.3) |
| Web Browser | * Internet Explorer 8,9,10 * Firefox 3.5 and 8,9 * Safari 5.1.2 * Chrome |
| Other | Web connectivity |

### u.direct

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| --- | --- |
| Requirement | Minimum Version |
| u.achieve Server  DARwin | version 4.0.12 or higher  version 3.5.10 |
| redLantern/CollegeSource Security / Dashboard | version 2.0 or higher. (This is not the same security application that was used with DARSweb.) |
| Java | Same as listed for the u.achieve Server |
| Database | Same as listed for the u.achieve Server |
| Servlet Container | Java Servlet Container implementing the Servlet 2.4 API and JSP 2.0 API.  Examples:   * Tomcat 5.5, 6, 7 * Jetty 6, 7 * Jboss 4.2, 5 * BEA Weblogic 10 * IBM WebSphere 7 * OC4J 10g R3 (10.1.3) |
| Web Browser | * Internet Explorer 8,9,10 * Firefox 3.5 and 8,9 * Safari 5.0 * Chrome |
| Other | Web connectivity |

### u.select Connector

|  |  |
| --- | --- |
| Requirement | Minimum Version |
| Java | Same as listed for the u.achieve Server |
| Database | Same as listed for the u.achieve Server |
| Servlet Container | Java Servlet Container implementing the Servlet 2.4 API and JSP 2.0 API.  Examples:   * Tomcat 5.5, 6, 7 * Jetty 6, 7 * Jboss 4.2, 5 * BEA Weblogic 10 * IBM WebSphere 7 * OC4J 10g R3 (10.1.3) |

### CollegeSource Security / Dashboard

|  |  |
| --- | --- |
| Requirement | Minimum Version |
| Java | Same as listed for the u.achieve Server |
| Database | Same as listed for the u.achieve Server |
| Servlet Container | Java Servlet Container implementing the Servlet 2.4 API and JSP 2.0 API.  Examples:   * Tomcat 5.5, 6, 7 * Jetty 6, 7 * Jboss 4.2, 5 * BEA Weblogic 10 * IBM WebSphere 7 * OC4J 10g R3 (10.1.3) |
| Web Browser | * Internet Explorer 8,9,10 * Firefox 3.5 and 8,9 * Safari 5.1.2 * Chrome |
| Other | Web connectivity |