

ArcGIS 9.3 Release Candidate

ArcIMS System Requirements

NOTE: This product is not yet released. Its system requirements are subject to change before release.

Server Requirements

ArcIMS Supported Application/Web Servers

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Application/Web Server	Supported Operating Systems
Apache 2.0.58 with Tomcat 5.5.17	AIX 5.2 AIX 5.3 Red Hat Enterprise Linux AS/ES 4.0 Update 2 SUSE Linux Enterprise Server 10 Sun Solaris 10 (SPARC) Sun Solaris 9 (SPARC) Windows 2003 SP2 Server Standard, Enterprise & Datacenter Windows XP SP2 Professional Edition
Apache 2.2.4 with Tomcat 6.0.13	AIX 5.2 AIX 5.3 Red Hat Enterprise Linux AS/ES 4.0 Update 2 SUSE Linux Enterprise Server 10 Sun Solaris 10 (SPARC) Sun Solaris 9 (SPARC) Windows 2003 SP2 Server Standard, Enterprise & Datacenter Windows XP SP2 Professional Edition
Internet Information Server with Servlet Exec 5.0 ISAPI	Windows 2000 SP4 Server, Advanced Server & Datacenter Windows 2003 SP2 Server Standard, Enterprise & Datacenter Windows XP SP2 Professional Edition

Internet Information Server with Tomcat 5.5.17	Windows 2000 SP4 Server, Advanced Server & Datacenter Windows 2003 SP2 Server Standard, Enterprise & Datacenter Windows Vista Ultimate, Enterprise, Business Windows XP SP2 Professional Edition
Internet Information Server with Tomcat 6.0.13	Windows 2000 SP4 Server, Advanced Server & Datacenter Windows 2003 SP2 Server Standard, Enterprise & Datacenter Windows Vista Ultimate, Enterprise, Business Windows XP SP2 Professional Edition
Oracle Application Server 10g Release 3 (10.1.3.0.0)	Sun Solaris 10 (SPARC) Sun Solaris 9 (SPARC)
Sun Java System (Sun ONE) Application Server 9.0	Red Hat Enterprise Linux AS/ES 4.0 Update 2
WebLogic 9.2	Red Hat Enterprise Linux AS/ES 4.0 Update 2 Sun Solaris 10 (SPARC) Sun Solaris 9 (SPARC)
WebLogic 10	Red Hat Enterprise Linux AS/ES 4.0 Update 2 Sun Solaris 10 (SPARC) Sun Solaris 9 (SPARC)
Websphere Application Server 6.1	Red Hat Enterprise Linux AS/ES 4.0 Update 2 Sun Solaris 10 (SPARC) Sun Solaris 9 (SPARC)

ArcIMS Operating System Requirements and Limitations

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All Platforms

- **Display Properties:** Greater than 256 color depth
- **Screen Resolution:** 1024 x 768 recommended or higher at Normal size (96dpi)

Microsoft Windows

- Some features of ArcIMS require a minimum installation of Microsoft Internet Explorer Version 6.0 or 7.0. If you do not have an installation of Microsoft Internet Explorer Version 6.0/7.0, you must obtain and install it prior to installing ArcIMS.
- **Windows XP and Vista:** These operating systems are supported for basic testing and application development use only. It is not recommended for deployment in a production environment.

Linux

- ArcIMS is only supported on Linux x86, on CPUs that adhere to the x86 architecture (32-bit), with supported Linux releases.
- It is a requirement that the OS (binary) has not been modified. ESRI does not provide any support if products are installed on Developer's Release of an Operating System.
- **Red Hat Enterprise Linux 4.0:**
 - The Linux patches from RHEL AS/ES will be supported as long as the patches are supported by the webservers and they are from Red Hat without any modification to the latest kernel/glibc version.
 - Red Hat Linux AS/ES 4.0 Kernel version 2.4.21 or higher
 - The following package groups are required:
 - X-Windows/Common Desktop Environment. The X Window System is usually installed by default with the operating system.
 - GNU C Library 2.3.4-2 or higher
 - xorg-x11-Xvfb (this X Windows System component is not included in the default install of X Windows System; you must make sure to include xorg-x11-Xvfb in the X Windows System install in order for ArcIMS 9.2 to function properly on RHEL 4.0.) Includes xorg-x11-Mesa-libGLU and xorg-x11-Mesa-libgl.
 - Base Development package
 - Base Legacy Software Development package
 - Additionally, the following software packages are required (package version must be at level stated or higher):
 - OpenGL XFree86-Mesa-libGLU and XFree86-Mesa-libGL, version 4.2.0-8 (Red Hat distribution contains the XFree86 package which emulates OpenGL.)
- **SUSE Linux 10:**
 - The Linux patches for SUSE Linux Enterprise Server 10 will be supported as long as they are from SUSE Linux without any modification to the latest kernel/glibc version.
 - The following software packages or libraries are required:
 - OpenGL: XFree86-Mesa-libGL, version 4.3.99, which is installed by default with SUSE Linux Enterprise Server 9.
 - X-Windows/Common Desktop Environment. The X Window System is usually installed by default with the operating system.
 - GNU C Library (glibc) version 2.3.4-2 or higher
 - Graphic Base System
 - C/C++ Compiler & Tools (includes gcc-g77, which libg2c.so.0 is a component of)

Sun Solaris

- When running in a 64-bit Solaris SPARC environment, ArcGIS Engine-related products operate as 32-bit applications.
- It is a requirement that the OS (binary) has not been modified. ESRI does not provide any support if products are installed on Developer's Release of an Operating System.
- OpenGL version 1.3 or higher runtime environment
- X Window System, version 6.9.0
- The following patches are recommended for Solaris 10 installs:
 - 113886-29 patch for OpenGL
 - 113887-29 patch for OpenGL

HP-UX

- **Window System:** X11 Window Environment
- **HP-UX required patches:**
 - PHCO_33711 s700_800 11.11 libc cumulative patch
 - PHCO_31923 s700_800 11.11 libc cumulative header file patch
 - PHKL_33258 s700_800 11.11 VxFS cumulative patch ;ml_flag race
 - PHKL_28025 is required to fix "du" command not reporting blocks correctly. The installation software needs this patch in order to work correctly.
- **Software requirements:**
 - OpenGL version 1.3 runtime environment
 - The X Window System must be installed. X Window is usually installed by default with the operating system.
- ESRI recommends that you execute ArcIMS from a C shell. The instructions in this installation document are for a C shell environment setup only.

IBM AIX

- Asynchronous I/O must be enabled. To enable Asynchronous I/O (must be done as root user):
 1. Use SMIT and navigate to Devices > Asynchronous I/O > Asynchronous I/O (Legacy) > Change/Show Characteristics of Asynchronous I/O
 2. Change "STATE to be configured at system restart" from defined to available.
 3. Click OK. Exit SMIT
 4. Reboot the machine.
- **Software requirements:**
 - OpenGL version 1.3 runtime environment
 - X-Windows/Common Desktop Environment
 - X11.fnt.ucs.ttf file set is required.

ArcIMS Java Requirements

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J2SE JRE Requirements

- **ArcIMS Server:** Refer to your Web server documentation for supported JRE versions. A J2SE JRE does not have to be installed prior to installing ArcIMS, the post installation setup will provide you with the opportunity to install and configure a system registered J2SE JRE version 5.0 Update 13.
- **ArcIMS Java Viewers:** A JRE with the Java Plug-in is required.

HP only:

- Java™ 2 platform, standard edition (J2SE)™ version 5.0.03 and the ANSI Standard C++ runtime (-AA) option library files are installed with ArcIMS 9.2.
- The Standard C++ runtime (-AA)library files are required for ArcIMS 9.2.

J2SE SDK (JDK) Requirements

- **ArcIMS Server:** Refer to your Web server documentation for supported JDK versions. JDK version 5 Update 13 (v1.5.0_13) is supported
- **ArcIMS Service Administrator, Metadata Explorer, Java Connector, WFS and WMS Connectors:**
JDK version 5.0 Update 13 is supported.

ArcMap Server Requirements

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Supported Operating Systems

- Microsoft Windows
- Sun Solaris
- Red-Hat Linux
- SUSE Linux

To create .MXDs and .PMFs the following versions of ArcGIS are needed:

- **For Windows:** You cannot serve an .MXD file created in ArcMap 9.3 in a pre-9.3 version of ArcIMS.
To serve an .MXD file via ArcIMS 9.3, the file must have been created in ArcGIS version 8.2 or higher. To serve a .PMF file in ArcIMS 9.3, the file must have been created in ArcGIS version 8.3 or higher. In order to do so, users must uncheck the "Open in ArcReader only" checkbox in Application Tab of the Publisher Settings dialog and then publish the PMF, or in the case of 8.x PMFs re-publish the PMF.
- **For Solaris/Linux:** If ArcSDE data (only) is used, ArcGIS 8.2 or higher is needed to create .MXDs and ArcGIS 8.3 or higher is needed to create .PMFs that can be served in ArcIMS ArcMap Server 9.3. In order to do so, users must uncheck the "Open in ArcReader only" checkbox in Application Tab of the Publisher Settings dialog and then publish the PMF, or in

the case of 8.x PMFs re-publish the PMF.
If file based data is used, ArcGIS 9.0 or higher is needed to create .MXDs /.PMFs that can be served in ArcIMS ArcMap Server 9.3.

Metadata Server Requirements

The following software is required to use the ArcIMS Metadata Service:
ArcGIS 9.3
ArcSDE 9.3

Supported Clients

ArcIMS Java Requirements

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J2SE JRE Requirements

- **ArcIMS Server:** Refer to your Web server documentation for supported JRE versions. A J2SE JRE does not have to be installed prior to installing ArcIMS, the post installation setup will provide you with the opportunity to install and configure a system registered J2SE JRE version 5.0 Update 13.
- **ArcIMS Java Viewers:** A JRE with the Java Plug-in is required.

HP only:

- Java™ 2 platform, standard edition (J2SE)™ version 5.0.03 and the ANSI Standard C++ runtime (-AA) option library files are installed with ArcIMS 9.2.
- The Standard C++ runtime (-AA)library files are required for ArcIMS 9.2.

J2SE SDK (JDK) Requirements

- **ArcIMS Server:** Refer to your Web server documentation for supported JDK versions. JDK version 5 Update 13 (v1.5.0_13) is supported
- **ArcIMS Service Administrator, Metadata Explorer, Java Connector, WFS and WMS Connectors:**
JDK version 5.0 Update 13 is supported.

ArcIMS Supported Web Browsers

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Web Browser	Supported Operating Systems
Firefox 2.0	Red Hat Enterprise Linux AS/ES 4.0 Update 2 SUSE Linux Enterprise Server 10 Sun Solaris 10 (SPARC) Sun Solaris 9 (SPARC) Windows 2000 SP4 Server, Advanced Server & Datacenter Windows 2003 SP2 Server Standard, Enterprise & Datacenter Windows Vista Ultimate, Enterprise, Business Windows XP SP2 Professional Edition
Internet Explorer 6.0	Windows 2000 SP4 Server, Advanced Server & Datacenter Windows XP SP2 Professional Edition
Internet Explorer 7.0	Windows 2000 SP4 Server, Advanced Server & Datacenter Windows 2003 SP2 Server Standard, Enterprise & Datacenter Windows Vista Ultimate, Enterprise, Business Windows XP SP2 Professional Edition

Client Display Requirements

- X-Windows/Common Desktop Environment is required on all UNIX/Linux platforms.

Developer Solutions Requirements

Web ADF for the Microsoft .NET Framework

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Supported Application/Web Servers

Application/Web Server	Supported Operating Systems
Internet Information Server	Windows 2000 SP4 Server, Advanced Server & Datacenter Windows 2003 SP2 Server Standard, Enterprise & Datacenter Windows 2003 SP2 (64-bit) Server Standard, Enterprise & Datacenter Windows Vista SP1 Ultimate, Enterprise, Business Windows XP SP2 Professional Edition

Integrated Development Environment (IDE) requirements

IDE	Supported Operating Systems
Microsoft Visual Studio 2005 (Web Developer Express, Standard, Professional, or Team Editions)	Windows 2000 SP4 Server, Advanced Server & Datacenter Windows 2003 SP2 Server Standard, Enterprise & Datacenter Windows 2003 SP2 (64-bit) Server Standard, Enterprise & Datacenter Windows XP SP2 Professional Edition
Microsoft Visual Studio 2008 (Professional or Standard Editions)	Windows 2003 SP2 Server Standard, Enterprise & Datacenter Windows 2003 SP2 (64-bit) Server Standard, Enterprise & Datacenter Windows Vista SP1 Ultimate, Enterprise, Business Windows XP SP2 Professional Edition

.NET Framework Requirements

.NET Framework 2.0	NET Framework 2.0 is installed with Visual Studio .NET 2005. The redistributable is available to developers who want to include the .NET Framework installation with their .NET applications. .NET Framework 2.0 is also provided in a DotNet20 folder on the ArcGIS Server DVD media for your convenience.
.NET Framework 3.5	NET Framework 3.5 is installed with Visual Studio .NET 2008. The redistributable is available to developers who want to include the .NET Framework installation with their .NET applications.

Web ADF for the Java Platform

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If you are using the ArcGIS Server Web controls and Web templates to build Servlet or JSP based web applications, the following are required:

- Web server
- Servlet engine
- J2SE SDK (JDK) *(In some cases, the Web server includes the servlet engine and/or JDK.)*

If you are using ArcGIS Server to develop or build Enterprise Java Bean (EJB) applications, the following are required:

- J2EE compliant Application Server
- J2SE SDK (JDK) (*In most cases, the application server includes the JDK.*)

Supported Application/Web Servers

Application/Web Server	Supported Operating Systems
Apache 2.0.58 with Tomcat 5.5.17	Sun Solaris 10 (SPARC) Sun Solaris 9 (SPARC) Windows 2003 SP2 Server Standard, Enterprise & Datacenter Windows XP SP2 Professional Edition
Apache 2.2.4 with Tomcat 6.0.13	Red Hat Enterprise Linux AS/ES 4.0 Update 2 Sun Solaris 10 (SPARC) Sun Solaris 9 (SPARC) Windows 2003 SP2 Server Standard, Enterprise & Datacenter
Tomcat 5.5.17	Red Hat Enterprise Linux AS/ES 4.0 Update 2 SUSE Linux Enterprise Server 10 Sun Solaris 10 (SPARC) Sun Solaris 9 (SPARC) Windows 2000 SP4 Server, Advanced Server & Datacenter Windows 2003 SP2 Server Standard, Enterprise & Datacenter Windows Vista SP1 Ultimate, Enterprise, Business Windows XP SP2 Professional Edition
WebLogic 9.2	Windows 2003 SP2 Server Standard, Enterprise & Datacenter
Websphere Application Server 6.1	Red Hat Enterprise Linux AS/ES 4.0 Update 2 Sun Solaris 10 (SPARC) Sun Solaris 9 (SPARC)

Integrated Development Environment (IDE) requirements

IDE	Supported Operating Systems
Eclipse 3.2 - Must be used with Web Tools Platform 1.5. - A Java runtime environment (JRE) is required to use Eclipse. A minimum of JDK 5 Update 13 is recommended.	Red Hat Enterprise Linux AS/ES 4.0 Update 2 SUSE Linux Enterprise Server 10 Windows 2003 SP2 Server Standard, Enterprise & Datacenter Windows XP SP2 Professional Edition

Java Requirements

JDK version 5 Update 13 (v1.5.0_13) is required for Java development

ColdFusion Connector

Supported Version(s): ColdFusion MX 7