

# Content Services 5.4.0

## Windows Oracle Platform Requirements

This document describes the hardware and software requirements for various configurations of Content Services 5.4.0. The information in this document takes precedence over any other hardware and software requirements in the Content Services 5.4.0 documentation in the *FileNet Content Services 5.4.0* CD-ROM or posted at [FileNet Worldwide Customer Support](#).

### Revision Log

Date	Revision
3/11/2004	Initial release

### Content Services Platforms

You can install Content Services 5.4.0 on any of four *platforms*: Windows SQL, HP-UX Oracle, Solaris Oracle, and Windows Oracle. The platform is determined by

- the operating system (Windows, HP-UX, or Solaris) running on the initial storage server and any additional storage servers
- the type of database engine (SQL Server or Oracle)

For example, a Windows SQL platform means that Windows runs on the initial storage server and any additional storage servers, and the database engine is SQL Server. The Windows SQL platform is homogeneous in the sense that Windows runs on the database engine and on the initial/additional storage servers.

The Oracle platforms may be homogeneous or heterogeneous in the sense that the database server and the initial/additional storage servers may or may not run the same type of operating system. For example, on a Windows Oracle platform, Windows runs on the initial and additional storage servers, while the Oracle database engine may run on a Windows, HP-UX, Sun Solaris, or IBM AIX server.

The following sections contain the hardware and software requirements for each possible type of Content Services (CS) configuration and for the CS Client Library Files:

- [“Standalone Database Server” on page 3](#): a server where the database engine, but no CS components, is installed
- [“Storage Server” on page 9](#): a server where at least one set of initial or additional CS components, but no database engine, is installed



- “[Database + Storage Server](#)” on page 10: a server where the database engine and at least one initial or additional set of CS components are installed
- “[Rendition Services Server](#)” on page 12: the Rendition Services component of Content Services.
- “[CS Client Library Files](#)” on page 14: the Client Library files to be installed on a machine where a CS 5.4 client application will be running

In addition, the following sections list the FileNet client applications supported for use with CS 5.4.0, as well as the applications that can be collocated with CS 5.4.0 on the same server:

- “[Supported CS Client Applications](#)” on page 15
- “[Content Services Collocation](#)” on page 15

**Note** The Storage and database server should not be separated across a WAN.

Unless otherwise indicated,

- the numerical values specified in the requirements represent minimum acceptable values
- hardware and software requirements apply to servers in a non-cluster environment

## Patch Information

For the latest information regarding operating system and database patches and updates, visit the following web sites:

- [Microsoft Product Support Services](#)
- [HP IT Resource Center](#)
- [Sun BigAdmin System Administration Portal](#)
- [IBM](#)
- [OracleMetaLink](#)

For the latest information regarding patches required to access Content Services library systems from FileNet client applications, such as IDM Desktop and Web Services, refer to the client application documentation at [FileNet Worldwide Customer Support](#).

## Standalone Database Server

### Windows Oracle9i 9.2.0 Hardware Requirements

Component	Requirements
Processor	Intel or compatible Pentium 1000 MHz
RAM	1024 MB
Disk space	<p>Oracle9i 9.2.0 Standard Edition NTFS file system: 2.8 GB on Oracle home drive, 140 MB on system drive</p> <p>Oracle9i 9.2.0 Enterprise Edition NTFS file system: 2.85 GB on Oracle home drive, 140 MB on system drive</p> <p>SYSTEM tablespace: 175 MB temporary tablespace: 25 MB Property repository (tablespace): 20 MB per library system</p>
CD-ROM drive	Required
Network interfaces (cluster)	At least two network interfaces per cluster node: one for the public network, and one for the private network that forms a link between the cluster nodes. To avoid single-point cluster communication failures, have at least two private networks interconnecting the cluster nodes.
Fault tolerance (cluster)	RAID-5 level for the shared drives in a cluster
Bus type (cluster)	SCSI

### Windows Oracle9i 9.2.0 Software Requirements

Component	Requirements
Operating system	<p>Windows Server 2003 Standard Edition, Enterprise Edition or Datacenter Edition.</p> <p>Windows 2000 Server, Advanced Server or Datacenter + Service Pack 4. Advanced Server is required if the server is in a cluster.</p>
Web browser	Microsoft Internet Explorer 5 or higher
Network protocols	TCP/IP. Static IP addresses are recommended. Using DHCP runs the risk of an expired DHCP lease or a disconnection from the DHCP server, causing Storage Manager failure and dramatically increased CPU usage.

Component	Requirements
Database	Oracle9i Standard Edition or Enterprise Edition Release 2 (9.2.0.1.0) for Windows 2000 + Oracle9i Release 2 Database Server Patch Set 3 for Windows Version 9.2.0.4.0.
Clustering (optional)	Microsoft Cluster Server (MSCS) 1.0 or later Oracle Fail Safe 3.3.2

## HP Oracle9i 9.2.0 Hardware Requirements

Component	Requirements
Processor	HP 9000 750 MHz
RAM	512 MB (add 2 - 5 MB for each user connection)
Oracle disk space	Database engine: 4.5 GB Oracle Universal Installer: 400 MB in /tmp directory SYSTEM tablespace: 175 MB temporary tablespace: 25 MB Property repository (tablespace): 20 MB per library system Swap space: 1 x RAM or 1 GB, whichever is greater
CD-ROM drive	Required

## HP Oracle9i 9.2.0 Software Requirements

Component	Requirements
Operating system	HP-UX 11.00 64-bit + QPK1100 September 2003 (B.11.00.62.4) <i>or</i> HP-UX 11i (11.11) 64-bit + GOLDQPK11i December 2003 (B.11.11.0312.4)
Network protocols	TCP/IP. Static IP addresses are recommended. Using DHCP runs the risk of an expired DHCP lease or a disconnection from the DHCP server, causing Storage Manager failure and dramatically increased CPU usage.
Database	Oracle9i (64-bit) Standard Edition or Enterprise Edition 9.2.0.1.0 on HP-UX 11.0 64-bit or HP-UX 11i (11.11) 64-bit + Oracle9i Release 2 Database Server Patch Set 3 for HP9000 Series HP-UX (64-bit) Version 9.2.0.4.0

## Solaris Oracle9i 9.2.0 Hardware Requirements

Component	Requirements
Processor	Sun SPARC 32-bit or 64-bit 750 MHz
RAM	512 MB (add 2 - 5 MB for each user connection)
Oracle disk space	Database engine: 4.5 GB Oracle Universal Installer: 75 MB in <code>/tmp</code> directory SYSTEM tablespace: 175 MB temporary tablespace: 25 MB Property repository (tablespace): 20 MB per library system Swap space: 1 x RAM or 1 GB, whichever is greater, + 0.25 x RAM for each library system beyond the first
CD-ROM drive	Required

## Solaris Oracle9i 9.2.0 Software Requirements

Component	Requirements
Operating system	Solaris 9 (32-bit or 64-bit)
OS patches	Solaris 9 Recommended Patch Cluster (Oct/30/03)
OS packages	SUNWarc, SUNWbtool, SUNWhea, SUNWlibm, SUNWlibms, SUNWsprot, SUNWtoo
Window manager	X Window System must be installed on the server where the Oracle Universal Installer is run. Use any Sun-supported X Window server (such as <code>dtwm</code> , <code>twm</code> , or <code>olwm</code> ) that supports Motif.
Required executables	The following executables must be present in the <code>/usr/css/bin</code> directory: <code>make</code> , <code>ar</code> , <code>ld</code> , and <code>nm</code>
Network protocols	TCP/IP. Static IP addresses are recommended. Using DHCP runs the risk of an expired DHCP lease or a disconnection from the DHCP server, causing Storage Manager failure and dramatically increased CPU usage.
Database	Oracle9i (32-bit) Standard or Enterprise Edition 9.2.0.1.0 for Solaris 9 + Oracle9i Release 2 Database Server Patch Set 3 for Sun SPARC Solaris (32-bit database) Version 9.2.0.4.0 <i>or</i>  Oracle9i (64-bit) Standard or Enterprise Edition 9.2.0.1.0 for Solaris 9 + Oracle9i Release 2 Database Server Patch Set 3 for Sun SPARC Solaris (64-bit database) Version 9.2.0.4.0

## AIX Oracle9i 9.2.0 Hardware Requirements

Component	Requirements
Processor	IBM RS/6000 750 MHz
RAM	512 MB (add 2 - 5 MB for each user connection)
Disk space	Database engine: 3.5 GB Oracle Universal Installer: 400 MB in /tmp directory SYSTEM tablespace: 175 MB temporary tablespace: 25 MB Property repository (tablespace): 20 MB per library system
Swap space	1 X RAM or 1 GB, whichever is greater
CD-ROM drive	Required

## AIX Oracle9i 9.2.0 Software Requirements

Component	Requirements
Operating system	AIX Version 4.3.3 or higher
OS patches	The following AIX patches must be installed before you install Oracle9i 9.2.0:  AIX 4.3.2: IX72696, IX81863, IX85104, IX87313, IX87382, IX89087, IX89552, IY02407, IY03412, IY05995, IY07276, and IY01050  AIX 4.3.3: Maintenance Level 09 and IY24568, IY25282, IY27614, and IY30151  AIX 5.1: AIX 5L release 5.1 ML01 + IY22854, IY26778, IY28766, IY28949, IY29965, and IY30150
OS packages	bos.adt.base, bos.adt.lib, bos.adt.libm, and bos.perf.perfstat
Window manager	Use any supported IBM AIX window manager (such as dtwm, twm, olwm) that supports Motif. (Character-mode installs are not supported.)  If you are using the Hummingbird Exceed X Window emulator to install Oracle9i 9.2.0, be sure to set the window manager to run in Native mode so that Microsoft Windows will function as the window manager.
Required executables	The following executables must be invoked in the /usr/ccs/bin directory: make, ar, ld, nm.

Component	Requirements
Network protocols	TCP/IP. Static IP addresses are recommended. Using DHCP runs the risk of an expired DHCP lease or a disconnection from the DHCP server, causing Storage Manager failure and dramatically increased CPU usage.
Database	Oracle9i 9.2.0 Standard Edition or Enterprise Edition Release 2 for IBM AIX + Oracle9i Release 2 Database Server Patch Set 3 for IBM AIX (64-bit Database) Version 9.2.0.4.0



## Storage Server

### Windows Hardware Requirements

Component	Requirements
Processor	Intel or compatible Pentium 1000 MHz
RAM	1024 MB
DB disk space	Oracle9i 9.2.0 Client: 150 MB on Oracle home drive, 50 MB on system drive
CS disk space	Each initial set of CS components: 300 MB Each additional set of CS components: 280 MB CS shared library files: 20 MB The TMP and TEMP system environment variables must each point to a partition containing at least 220 MB.
CD-ROM drive	Required
Network interfaces (cluster)	At least two network interfaces per cluster node: one for the public network, and one for the private network that forms a link between the cluster nodes. To avoid single-point cluster communication failures, have at least two private networks interconnecting the cluster nodes.
Fault tolerance (cluster)	RAID-5 level for the shared drives in a cluster
Bus type (cluster)	SCSI

### Windows Software Requirements

Component	Requirements
Operating system	Windows Server 2003 Standard Edition, Enterprise Edition or Datacenter Edition.  Windows 2000 Server, Advanced Server or Datacenter + Service Pack 4. Advanced Server is required if the server is in a cluster.
Web browser	Microsoft Internet Explorer 5 or higher
Network protocols	TCP/IP. Static IP addresses are recommended. Using DHCP runs the risk of an expired DHCP lease or a disconnection from the DHCP server, causing Storage Manager failure and dramatically increased CPU usage.
Database connectivity	Oracle9i 9.2.0 Client

## Database + Storage Server

### Windows Oracle9i 9.2.0 Hardware Requirements

Component	Requirements
Processor	Intel or compatible Pentium 1000 MHz
RAM	1024 MB
DB disk space	NTFS file system: 2.85 GB on Oracle home drive, 140 MB on system drive  SYSTEM tablespace: 175 MB temporary tablespace: 25 MB Property repository (tablespace): 20 MB per library system
CS disk space	Each initial set of CS components: 300 MB Each additional set of CS components: 280 MB CS shared library files: 20 MB The TMP and TEMP system environment variables must each point to a partition containing at least 220 MB.
CD-ROM drive	Required
Network interfaces (cluster)	At least two network interfaces per cluster node: one for the public network, and one for the private network that forms a link between the cluster nodes. To avoid single-point cluster communication failures, have at least two private networks interconnecting the cluster nodes.
Fault tolerance (cluster)	RAID-5 level for the shared drives in a cluster
Bus type (cluster)	SCSI

### Windows Oracle9i 9.2.0 Software Requirements

Component	Requirements
Operating system	Windows Server 2003 Standard Edition, Enterprise Edition or Datacenter Edition.  Windows 2000 Server, Advanced Server or Datacenter with Service Pack 4. Advanced Server is required if the server is in a cluster.
Web browser	Microsoft Internet Explorer 5 or higher

Component	Requirements
Network protocols	TCP/IP. Static IP addresses are recommended. Using DHCP runs the risk of an expired DHCP lease or a disconnection from the DHCP server, causing Storage Manager failure and dramatically increased CPU usage.
Database	Oracle9i Standard Edition or Enterprise Edition Release 2 (9.2.0.1.0) for Windows 2000 + Oracle9i Release 2 Database Server Patch Set 3 for Windows Version 9.2.0.4.0.
Database connectivity	Microsoft MDAC 2.8 (installed by CS Setup)
Clustering (optional)	Microsoft Cluster Server (MSCS) 1.0 or later Oracle Fail Safe 3.3.2

# Rendition Services Server

## Hardware Requirements

Component	Requirements
Processor	Pentium or compatible processor 1000 MHz
RAM	512 MB (1 GB for enhanced performance)
Disk space	4 GB or higher
CD-ROM drive	Required

## Software Requirements

Component	Requirements
Operating system	Windows 2000 Server or Advanced Server + Service Pack 4.
Web software	Microsoft Internet Explorer 6.0 and IIS 5.0
Network protocols	TCP/IP. Static IP addresses are recommended. Using DHCP runs the risk of an expired DHCP lease or a disconnection from the DHCP server.
Publishing software	Adobe Acrobat Distiller Server 5.0.5 (available on <i>Renditions Services</i> CD-ROM)
Renditions software	CS Rendition Services (available on <i>Renditions Services</i> CD-ROM)
Database	Access to a SQL Server 2000 + Service Pack 3 database or an Oracle8i 8.1.7 database, either collocated or remote from Rendition Services.
Database connectivity (for an oracle database)	Oracle8i 8.1.7 Client Oracle ODBC Driver for Oracle8i 8.1.7 (do not use Microsoft ODBC Driver for Oracle).
Content Services client program	IDM Desktop 3.2a or 3.2b + Hotfix Pack 18 or higher, or IDM Desktop 3.3.
Content Services connectivity	Content Services 5.4.0 or Content Services 5.4.0 Client Library Files (available on <i>Content Services</i> CD-ROM). Install <i>after</i> installing IDM Desktop 3.2a or 3.2b or 3.3.
Source programs	Install the application programs (shown in the following table) that generate the documents you want to render.

## Supported Source Programs

Application	Version
Adobe FrameMaker	6.5
Adobe Illustrator	9.0
Adobe PageMaker	6.5
ASCII	N/A
AutoCAD	2000
Corel Draw	9.0
Corel Presentation	9.0, 10.0
Corel Quattro Pro	9.0, 10.0
Corel WordPerfect	9.0, 10.0
ISIS/Draw	2.4
Macromedia FreeHand	9.0
MicroStation	7.1J
MS Excel	2000 (SR1a) + Service Pack 3
MS Internet Explorer	N/A
MS PowerPoint	2000 (SR1a) + Service Pack 3
MS Project	2000 (SR1a) + Service Pack 3
MS Visio	2000 (SR1a) + Service Pack 3
MS Word	2000 (SR1a) + Service Pack 3
PDF	N/A
QuarkXPress	4.1
TIFF	N/A

## CS Client Library Files

### Windows Software Requirements

Component	Requirements
Operating system	Microsoft Windows 98 (not supported for CS Explorer) Windows 2000 Professional + Service Pack 4 Windows 2000 Server + Service Pack 4 Windows 2000 Advanced Server + Service Pack 4 Windows XP Professional + Service Pack 1
Web browser	Microsoft Internet Explorer 5 or higher
Network protocols	Microsoft TCP/IP.
Database connectivity	Microsoft MDAC 2.8 (installed by CS Setup)
Oracle9i 9.2.0 Client Software	Oracle Network Utilities 9.2.0.1.0 Oracle Database Utilities 9.2.0.1.0 Oracle Java Utilities 9.2.0.1.0 SQL*Plus 9.2.0.1.0 Oracle JDBC/OCI Interfaces 9.2.0.1.0 Oracle Call Interfaces 9.2.0.1.0

## Supported CS Client Applications

Product	Version(s)
IDM Desktop	3.2.0b and 3.3
IDM Web Services	3.2.0b and 3.3
CS Admin Tools	5.4.0
CS Web Admin Tools	5.4.0
Capture	4.0 and 4.1
eProcess	5.1

**Note** CS 5.4.0 Admin Tools can be installed only on a machine running Windows 2000 or Windows XP.

## Content Services Collocation

FileNet supports the collocation of Content Services 5.4.0 with the following FileNet products on the same server:

- Image Services 4.0
- CS Admin Tools 5.4.0
- CS Web Admin 5.4.0
- IDM Desktop 3.2.0b or 3.3
- Web Services 3.2.0b or 3.3

The following constraints apply to the products listed above:

- CS Admin Tools and CS Web Admin cannot be on the same machine.
- IDM Desktop and Web Services cannot be on the same machine.