Content Services 5.5.0 Solaris Oracle Platform Requirements

This document describes the hardware and software requirements for various configurations of Content Services 5.5.0. The information in this document takes precedence over any other hardware and software requirements in the Content Services 5.5.0 documentation in the *FileNet Content Services 5.5.0* CD-ROM or posted at FileNet Worldwide Customer Support.

Revision Log

Date	Revision
02/15/2007	Initial release

Content Services Platforms

You can install Content Services 5.5.0 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 may run on the initial and additional storage servers, while the Oracle database engine may run on a Windows, HP-UX, or Sun Solaris server.

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

- : a server where the database engine, but no CS components, is installed

- : a server where at least one set of initial or additional CS components, but no database engine, is installed

- : a server where the database engine and at least one initial or additional set of CS components are installed

- "Rendition Services Server" on page 13: the Rendition Services component of Content Services.

- "CS Client Library Files" on page 15: the Client Library files to be installed on a machine where a CS 5.5 client application will be running

In addition, the following sections list the FileNet client applications supported for use with CS 5.5.0, as well as the applications that can be collocated with CS 5.5.0 on the same server:

- "Supported CS Client Applications" on page 16:

- "Content Services Co-location" on page 16

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

- 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

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)
Disk space	Database engine: 4.5 GB Oracle Universal Installer: 75 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, + 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 `dtwm`, `twm`, or `olwm`) that supports Motif.
Required executables	The following executables must be present in the `/usr/css/bin` directory: `make`, `ar`, `ld`, and `nm`
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 for Solaris 9 + Oracle9i Release 2 Database Server Patch Set 3 for Sun SPARC Solaris (32-bit database) Version 9.2.0.4.0 *or* Oracle9i (64-bit) Standard or Enterprise Edition 9.2.0 for Solaris 9 + Oracle9i Release 2 Database Server Patch Set 3 for Sun SPARC Solaris (64-bit database) Version 9.2.0.4.0

Solaris Oracle 10g 10.2.0.1.0 Hardware Requirements

Component	Requirements
Processor	Sun SPARC v9 64-bit 750 MHz
RAM	1024 MB
Disk space	Database engine: 3.5 GB Pre-configured Database: 1.2 GB Oracle Universal Installer: 400 MB in /tmp directory SYSTEM tablespace: 490 MB TEMP tablespace: 20 MB Property repository (tablespace): 100 MB per library system Swap space: 1 x RAM or 1 GB, whichever is greater
CD-ROM drive	Required

Solaris Oracle 10g 10.2.0.1.0 Software Requirements

Component	Requirements
Operating system	Solaris 9 update 6 or later
OS patches	For all installations on Solaris 9, the following patches are required: • 112233-11, SunOS 5.9: Kernel Patch • 111722-04, SunOS 5.9: Math Library (libm) patch The following additional patches are required for Numa Systems: • 115675-01, SunOS 5.9: liblgrp API • 113471-08, SunOS 5.9: Miscellaneous SunOS Commands Patch • 115675-01, SunOS 5.9: /usr/lib/liblgrp.so Patch For PL/SQL native compilation, Pro*C/C++, Pro*FORTRAN, Oracle Call Interface, Oracle C++ Call Interface, Oracle XML Developer's Kit (XDK), the following patch for Solaris 9 is required: 112760-05, C 5.5: Patch for S1S8CC C compiler For Oracle Messaging Gateway installation, the following corrective service diskettes (CSDs) for WebSphere MQ are required: CSD09 or later for WebSphere MQ V5.1 MQSeries Client for Sun Solaris, Intel Platform Edition- V5.1 Support-Pac MACE

Component	Requirements
OS packages	SUNWarc, SUNWbtool, SUNWhea, SUNWlibm, SUNWlibms, SUN-Wsprot, SUNWtoo, SUNWi1of, SUNWi1cs, SUNWi15cs, SUNWxwfnt, SUNWsprox
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 dtwm, twm, or olwm) that supports Motif.
Required executables	The following executables must be present in the /usr/css/bin directory: make, ar, ld, and nm.
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	Oracle 10g Standard Edition or Enterprise Edition Release 2 (10.2.0.1.0) for Solaris (SPARC 64-Bit).

Storage Server

Solaris Hardware Requirements

Component	Requirements
Processor	Sun SPARC 32-bit or 64-bit 750 MHz
RAM	256 MB to install Oracle9i 9.2.0 Client 512 MB to install Oracle 10g 10.2.0.1.0 Client
Swap space	1 x RAM or 1 GB, whichever is greater
Oracle9i Client disk space	400 MB in the `/tmp` directory for the Oracle Universal Installer 32-bit Solaris: 320 MB for Oracle9i Client 64-bit Solaris: 448 MB for Oracle9i Client
Oracle 10g Client disk space	150 MB - 850 MB in the /tmp directory for the Oracle Universal Installer 34 MB - 1.9 GB for Oracle 10g Client
CS disk space	Each initial set of CS components: 2.5 GB Each additional set of CS components: 2.5 GB CS shared library files: 20 MB The TMP system environment variable must point to a partition containing at least 270 MB. Free space in /tmp directory: 50 MB.
CD-ROM drive	Required

Solaris Software Requirements

Component	Requirements
Operating system	For Oracle9i Client: Solaris 9 (32-bit or 64-bit) For Oracle 10g Client: Solaris 9 Update 6 or later

Component	Requirements
OS patches	For Verity 6.1.1, the following patches are required to be installed: 111712-13 (64-bit only), 112963-23, 111703-03, 111722-04 or later **For Oracle9i Client:** Solaris 9 Recommended Patch Cluster (Oct/30/03) **For Oracle 10g Client:** For all installations on Solaris 9, the following patches are required: • 112233-11, SunOS 5.9: Kernel Patch • 111722-04, SunOS 5.9: Math Library (libm) patch • 111713-06, SunOS 5.9_x86: Shared library patch for C++ • 111728-03, SunOS 5.9_x86: Math Library (libm) patch • 112234-12, SunOS 5.9_x86: Kernel Patch • 113986-08, SunOS 5.9_x86: linker Patch • 115114-02, SunOS 5.9_x86: Patch for assembler • 116013-02, SunOS 5.9_x86: ps utility patch The following additional patches are required for Numa Systems: • 115675-01, SunOS 5.9: liblgrp API • 113471-08, SunOS 5.9: Miscellaneous SunOS Commands Patch • 115675-01, SunOS 5.9: /usr/lib/liblgrp.so Patch For PL/SQL native compilation, Pro*C/C++, Pro*FORTRAN, Oracle Call Interface, Oracle C++ Call Interface, Oracle XML Developer's Kit (XDK), the following patch for Solaris 9 is required: 112760-05, C 5.5: Patch for S1S8CC C compiler
OS packages	**For Oracle9i Client:** SUNWarc, SUNWbtool, SUNWhea, SUNWlibm, SUNWlibms, SUNWsprot, SUNWtoo **For Oracle 10g Client:** SUNWarc, SUNWbtool, SUNWhea, SUNWlibm, SUNWlibms, SUNWsprot, SUNWsprox, SUNWtoo, SUNWi1of, SUNWi1cs, SUNWi15cs, SUNWxwfnt
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 dtwm, twm, or olwm) that supports Motif.

Component	Requirements
Required executables	The following executables must be present in the `/usr/css/bin` directory: `make`, `ar`, `ld`, and `nm`
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	**For Oracle 9i:** Oracle9i (32-bit) 9.2.0 Client for Solaris 9 or Oracle9i (64-bit) 9.2.0 Client for Solaris 9 **For Oracle 10g:** Oracle 10g 10.2.0.1.0 Client for Solaris (SPARC 64-Bit)

Database + Storage Server

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: 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
CS disk space	Each initial set of CS components: 2.5 GB Each additional set of CS components: 2.5 GB CS shared library files: 20 MB The TMP system environment variable must point to a partition containing at least 270 MB. Free space in /tmp directory: 50 MB.
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) For Verity 6.1.1, the following patches are required to be installed: 111712-13 (64-bit only), 112963-23, 111703-03, 111722-04 or later
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 dtwm, twm, or olwm) that supports Motif.
Required executables	The following executables must be present in the /usr/css/bin directory: make, ar, ld, and nm
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 (32-bit) Standard or Enterprise Edition 9.2.0 for Solaris 9 + Oracle9i Release 2 Database Server Patch Set 3 for Sun SPARC Solaris (32-bit database) Version 9.2.0.4.0 *or* Oracle9i (64-bit) Standard or Enterprise Edition 9.2.0 for Solaris 9 + Oracle9i Release 2 Database Server Patch Set 3 for Sun SPARC Solaris (64-bit database) Version 9.2.0.4.0

Solaris Oracle 10g 10.2.0.1.0 Hardware Requirements

Component	Requirements
Processor	Sun SPARC v9 64-bit 750 MHz
RAM	1024 MB
Oracle disk space	Database engine: 3.5 GB Pre-configured Database: 1.2 GB Oracle Universal Installer: 400 MB in /tmp directory SYSTEM tablespace: 490 MB TEMP tablespace: 20 MB Property repository (tablespace): 100 MB per library system Swap space: 1 x RAM or 1 GB, whichever is greater
CS disk space	Each initial set of CS components: 2.5 GB Each additional set of CS components: 2.5 GB CS shared library files: 20 MB The TMP system environment variable must point to a partition containing at least 270 MB. Free space in /tmp directory: 50 MB.
CD-ROM drive	Required

Solaris Oracle 10g 10.2.0.1.0 Software Requirements

Component	Requirements
Operating system	Solaris 9 update 6 or later

Component	Requirements
OS patches	For Verity 6.1.1, the following patches are required to be installed: 111712-13 (64-bit only), 112963-23, 111703-03, 111722-04 or later For all installations on Solaris 9, the following patches are required: • 112233-11, SunOS 5.9: Kernel Patch • 111722-04, SunOS 5.9: Math Library (libm) patch The following additional patches are required for Numa Systems: • 115675-01, SunOS 5.9: liblgrp API • 113471-08, SunOS 5.9: Miscellaneous SunOS Commands Patch • 115675-01, SunOS 5.9: /usr/lib/liblgrp.so Patch For PL/SQL native compilation, Pro*C/C++, Pro*FORTRAN, Oracle Call Interface, Oracle C++ Call Interface, Oracle XML Developer's Kit (XDK), the following patch for Solaris 9 is required: 112760-05, C 5.5: Patch for S1S8CC C compiler For Oracle Messaging Gateway installation, the following corrective service diskettes (CSDs) for WebSphere MQ are required: CSD09 or later for WebSphere MQ V5.1 MQSeries Client for Sun Solaris, Intel Platform Edition- V5.1 SupportPac MACE
OS packages	SUNWarc, SUNWbtool, SUNWhea, SUNWlibm, SUNWlibms, SUNWsprot, SUNWtoo, SUNWi1of, SUNWi1cs, SUNWi15cs, SUNWxwfnt, SUNWsprox
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 dtwm, twm, or olwm) that supports Motif.
Required executables	The following executables must be present in the `/usr/css/bin` directory: `make, ar, ld, and nm`.
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	Oracle 10g Standard Edition or Enterprise Edition Release 2 (10.2.0.1.0) for Solaris (SPARC 64-Bit).

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
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 *Renditions Services* CD-ROM) **Note** If you are using Type 1 PostScript fonts in documents, Adobe recommends installing Adobe Type Manager (ATM) on the server where Rendition Services is installed.
Renditions software	CS Rendition Services (available on *Renditions Services* 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 4.0 (or higher).
Content Services connectivity	Content Services 5.5.0 or Content Services 5.5.0 Client Library Files (available on *Content Services* CD-ROM). Install *after* installing IDM Desktop 4.0 (or higher).
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

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 Windows 2003 + 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
Oracle 10g 10.2.0.1.0 Client Software	Oracle Net 10.2.0.1.0 Oracle Database Utilities 10.2.0.1.0 Oracle Java Client 10.2.0.1.0 SQL*Plus 10.2.0.1.0 Oracle JDBC/THIN Interfaces 10.2.0.1.0 Oracle Call Interface (OCI) 10.2.0.1.0 Oracle Windows Interfaces 10.2.0.1.0

Supported CS Client Applications

Product	Version(s)
IDM Desktop	4.0
Web Services	4.0
CS Admin Tools	5.5.0
CS Web Admin Tools	5.5.0
Capture	4.0 and 4.1
eProcess	5.1

Note CS 5.5.0 Admin Tools can be installed only on a machine running Windows 2000, Windows 2003, or Windows XP.

Content Services Co-location

FileNet supports the co-location of Content Services 5.5.0 with the following FileNet products on the same server:

• CS Admin Tools 5.5.0

• CS Web Admin 5.5.0

• IDM Desktop 4.0

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.

Note Co-location of IDM Web Services with CS is not tested. Co-locating Web Services with any other FileNet server-based product, such as CS, is not recommended.