FileNet P8
Hardware and Software Requirements

Release 3.5.0, 3.5.0a

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FileNet Corporation

3565 Harbor Boulevard

Costa Mesa, California 92626

800.FILENET (345.3638)

Outside the U.S., call:
1.714.327.3400
www.filenet.com

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Revision Log

Date	Revision
9/1/06	• Added statement of non-support for direct modification of tablespaces in Database Support section. • Clarified collocation requirements for Capture 4.1. • Updated ISRA support to version 3.2.1. • Added Web Farm support for ISRA.
7/7/06	• Clarifies colloaction requirements for the Application Engine, including deploying multiple instances. • Updates Oracle 9i Server support. • Updates Hardware requirements for Portal Integration (FileNet P8 Portlets). • Updates Server Virtualization support.
6/10/06	• Adds Application Engine 3.5.0a for IBM AIX.
12/16/05	• Clarifying Records Manager collocation requirements
09/09/05	• Adds JBoss Clusters to Application Server Farm section • Updates Portal Server Support Section with WebSphere/WebLogic support • Updates Oracle Support Information • Updates IBM DB2 Support Information to include FileNet Hotfix Pack P8-CE-3.5.0-002 • Adds information for Team Collaboration Manager, Records Manager, and Capture 5.0

06/30/05	• Updates the Application Engine 3.5 section table to include support for:
	  o Oracle Application Server 10g
	  o Sun Java Application Server 8.1
	• Updates the VMWare section
	• Updates Portal Server table

05/20/05	• Updates support information for remote Oracle on Red Hat Linux AS 3.0. • Added support for IBM DB2 8.1.9 and 8.2.2, and a note clarifying equivalency of Universal Database 8.2 FixPak 2 and 8.1 FixPak 9.
04/12/05	• Consolidation of information in the "Application Development" topic.
03/31/05	Initial document release

Supported Platforms for Server Components

This topic provides details on the supported platforms for the FileNet P8 server components. Image Services has been included in this document for the first time to reflect the additional functionality that allows Image Services 4.0 SP3 and Content Engine 3.5 to communicate directly.

NOTE 1: Web Content Manager is not currently certified with FileNet P8 3.5.

NOTE 2: Except as noted, you can install and run with more current patch releases and service packs of the 3rd party software listed in the following subtopics as long as they are forward-compatible.

Application Engine 3.5.0 and 3.5.0a

NOTE Application Engine 3.5.0a was released for IBM AIX only.

Application Server	Operating System	Hardware
Tomcat 5.0.18	Solaris 8 Solaris 9 Windows 2000 ServerSP3a (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	SPARC SPARC Intel (32 bit) Intel (32 bit)
Tomcat 5.5.4	Solaris 8 Solaris 9 Windows 2000 ServerSP3a (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	SPARC SPARC Intel (32 bit) Intel (32 bit)
JBoss 3.2.x	Solaris 8 Solaris 9 Windows 2000 ServerSP3a (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	SPARC SPARC Intel (32 bit) Intel (32 bit)
JBoss 4.0.1	Red Hat Linux AS 3.0 Solaris 8 Solaris 9 Windows 2000 ServerSP3a (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	Intel (32 bit) SPARC SPARC Intel (32 bit) Intel (32 bit)
BEA WebLogic 7.0 SP4	HP-UX 11i w/Patch Bundle B.11.11.0306.1 IBM AIX 5.1 IBM AIX 5.2 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC RS6000 RS6000 SPARC SPARC Intel (32 bit) Intel (32 bit)
BEA WebLogic 8.1 SP4	HP-UX 11i w/Patch Bundle B.11.11.0306.1 (WL 8.1 SP3) IBM AIX 5.1 IBM AIX 5.2 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC RS6000 RS6000 SPARC SPARC Intel (32 bit) Intel (32 bit)

Application Server	Operating System	Hardware
IBM WebSphere Application Server 5.1.1 (Base, Network Deployment, WBISF)	HP-UX 11i w/Patch Bundle B.11.11.0306.1 IBM AIX 5.1 IBM AIX 5.2 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC RS6000 RS6000 SPARC SPARC Intel (32 bit) Intel (32 bit)
IBM WebSphere Application Server 6.0 (Base, Network Deployment)	HP-UX 11i w/Patch Bundle B.11.11.0306.1 IBM AIX 5.2 IBM AIX 5.3 Solaris 8 Solaris 9 Windows 2000 ServerSP3a (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC RS6000 RS6000 SPARC SPARC Intel (32 bit) Intel (32 bit)
Sun Java Application Server Server 8.1 (Platform, Standard, Enterprise Editions)	Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter) Solaris 8 Solaris 9	Intel (32 bit) Intel (32 bit) SPARC SPARC
Oracle Application Server 10g Release 2 [1,2]	Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter) Solaris 8 Solaris 9	Intel (32 bit) Intel (32 bit) SPARC SPARC

1. See the Known Issues document for the latest information on support for Component Integrator and Process Orchestrator.
2. For Oracle 10g Release 2 version 10.1.2.0.0, patch #3412804 is required

NOTE See the "Java Support" topic for further information.

Portal Server Support

Requires patch P8AE-3.5.0-001

Portal Server	Operating System	Hardware
BEA WebLogic Portal Server 8.1.4	HP-UX 11i w/Patch Bundle B.11.11.0306.1 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC SPARC SPARC Intel (32 bit) Intel (32 bit)

Portal Server	Operating System	Hardware
IBM WebSphere Portal Server 5.1	HP-UX 11i w/Patch Bundle B.11.11.0306.1 IBM AIX 5.1 IBM AIX 5.2 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC RS6000 RS6000 SPARC SPARC Intel (32 bit) Intel (32 bit)

Application/Web Server Layer

FileNet P8 Platform 3.5 runs within the J2EE environments specified earlier.

FileNet will support the version of the JDK that is installed with the supported Application Servers. All later service packs will be supported when they are made generally available by the App Server vendors. Alternate JDKs, such as JRockit are **not** supported. 64 bit-versions of the JREs are **not** supported.

Content Engine 3.5

Operating System	Other	Hardware
Windows 2000 Server SP4 (Server, Advanced, Datacenter)	Apache HTTPD v2.0.53 for SOAP listener JRE 1.4.1.01 – private copy Microsoft IIS 5.0 (required only for WebDAV) MDAC 2.8 Microsoft Windows Domain Controller	Intel (32 bit)
Windows 2003 Server SP1* (Standard, Enterprise, Datacenter)	Apache HTTPD v2.0.53 for SOAP listener JRE 1.4.1.01 – private copy Microsoft IIS 6.0 (required only for WebDAV) MDAC 2.8 Microsoft Windows Domain Controller	Intel (32 bit)

NOTES

- *See the updated *FileNet P8 Platform 3.5.0 Installation and Upgrade Guide* on the FileNet Customer Service and Support web site for installation details and instructions.

- Workgroup or Microsoft Active Directory Application Mode are **not** supported as an alternative – you must install Content Engine into a Windows domain.

- Content Engine with publishing components configured to interact with Rendition Engine must be on Windows 2000.

Image Services 4.0 SP3

The inclusion of Image Services in this document reflects the addition of functionality that allows Image Services to communicate directly with the Content Engine. Delivering this functionality requires installation of IS 4.0 SP3 and Content Engine 3.5, and provides the ability to reference and use Image Services documents from Content Engine 3.5. Supported Operating Systems and associated software are provided below. Additional details regarding Image Services requirements, including operating system specifications and supported maintenance levels and Service Packs can be found on the FileNet Customer Service and Support (CSS) web site(http://www.css.filenet.com).

Operating System	Other	Hardware
AIX 5.1 (64 bit only)		RS6000
AIX 5.2 (64 bit only)		RS6000
HP UX 11i (v11.11) (64 bit only)		PA-RISC
Solaris 8 (32 / 64 bit)	One of the following for disk partitioning: • VERITAS Volume Manager 3.x • Solstice DiskSuite 4.2.1	SPARC

Solaris 9 (32 / 64 bit)	One of the following for disk partitioning: • VERITAS Volume Manager 3.x • Solaris Volume Manager, 11.9.0	SPARC
Windows 2000 Server (32 bit only) (Server, Advanced, Datacenter)		Intel (32 bit)
Windows 2003 Server (32 bit only) Standard, Enterprise, Datacenter)		Intel (32 bit)

Process Engine 3.5

64 bit-versions of the JREs are **not** supported.

Operating System	Other	Hardware
AIX 5.1, Maintence Level 4	IBM JRE 1.4.1 - private	RS6000
AIX 5.2 Maintence Level 3	IBM JRE 1.4.1 - private	RS6000
HP-UX GOLDBASE11i Dec 2003 (see first bulleted **NOTE** below)	HP JRE 1.4.2_04 - private	HP9000
Solaris 8	SUN JRE 1.4.2_06 – private One of the following for disk partitioning: • VERITAS Volume Manager 3.x • Solstice DiskSuite 4.2.1	SPARC
Solaris 9	SUN JRE 1.4.2_06 – private One of the following for disk partitioning: • VERITAS Volume Manager 3.x • Solstice Volume Manager, 11.9.0	SPARC
Windows 2000 Server SP4 (Server, Advanced, Datacenter)	SUN JRE 1.4.2_06 - private	Intel (32 bit)
Windows 2003 Server Standard, Enterprise, Datacenter)	SUN JRE 1.4.2_06 - private	Intel (32 bit)

NOTES

• HP environments require the installation of the appropriate Java patches for your operating system. They can be downloaded from http://www.hp.com/products1/unix/java/patches/index.html

  Additionally, the following patches must be applied: PHSS_26560, PHCO_26124, PHCO_29960, PHKL_27091, PHKL_27094, PHKL_27317, PHKL_28489, PHSS_26263. PHSS_28436, PHSS_30049.

- Private JRE builds allow proper execution of the FileNet P8 components regardless of the version of JRE installaed on the target machine.

Rendition Engine

Operating System	Other	Hardware
Windows 2000 Server SP4 (Server, Advanced, Datacenter) (English version of OS only)	MDAC 2.7 One of the following: • Microsoft Internet Explorer 6.0 • MS XML 3.0	Intel (32 bit)

NOTE Content Engine with publishing components configured to interact with Rendition Engine must be on Windows 2000, not Windows 2003.

Rendering Formats	Supported Applications
HTML	Microsoft Office 2000 SP3 (MS Word, MS Excel, MS PowerPoint)
	Microsoft Office XP SP3 (MS Word, MS Excel, MS PowerPoint)
	Word Perfect 10
PDF	Adobe Acrobat 5.0.5
	Adobe FrameMaker 6.0
	Adobe FrameMaker+SGML 6.0
	Adobe Illustrator 9.0
	Adobe PageMaker 6.5
	Adobe Photoshop 6.0
	AutoCAD 2000 / 2004
	Corel Draw 9.0
	Corel Quattro Pro 9.0
	Corel WordPerfect 9.0
	Corel WordPerfect 10.0
	ISIS Draw 2.4
	Macromedia FreeHand 9.0
	Microsoft Office 2000 SP3 (Excel, PowerPoint, and Word)
	Microsoft Office 2003 SP1** (Excel, PowerPoint, Project, and Word)
	Microsoft Office XP, SP3 (Excel, PowerPoint, Project, and Word)
	Microsoft Visio Professional 2000 (SR1)
	QuarkXPress 4.1
	_____
	** With manual workaround for Word 2003. The Word plug-in shipped with Vista Component Server 2.1.2 SP2a has Office 2003 support; however, you must make the following registry entry changes on Rendition Engine server(s).
	1. Find "HKEY_CLASSES_ROOT\Word.Application.11\CLSID" in the registry.
	2. Copy the value of this registry key for Word 2003 to the clipboard.
	3. Create a new key called "Word.Application.10" under "HKEY_CLASSES_ROOT".
	4. Set the value of this key to "Microsoft Word Application".
	5. Create a new key called "CLSID" under "HKEY_CLASSES_ROOT\Word.Application.10".
	6. Set the value of this key to the value copied into the clipboard – for example: "{000209FF-0000-0000-C000-000000000046}"
	NOTE Clients need make no such changes for Office 2003 for the PowerPoint and Excel plug-ins that are also shipped with Vista Component Server.

Database Support

Basic Support

	Content Engine – local DB	Content Engine – remote DB	Process Engine – local DB	Process Engine – remote DB	Process Analyzer – local/remote DB	Capture – batch scanning	eForms – data lookups/submits	Rendition Engine	Image Services – local DB	Image Services – remote DB	Records Manager	Team Collaboration
MS SQL Server 2000, SP3a Standard Edition on: • Windows 2000 Server Family SP4 • Windows 2003 Server Family	Y	Y	Y	Y[1]	N	Y	Y	Y	Y	Y	Y	Y
MS SQL Server 2000, SP3a Enterprise Edition on: • Windows 2000 Server Family SP4 • Windows 2003 Server Family	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Oracle 9.2.0.7 Standard and Enterprise Editions on: • Windows 2000 Server Family SP3 • Windows 2003 Server Family	Y	Y	Y	Y	N	Y[2]	Y	Y[3]	Y	Y	Y	Y
Oracle 9.2.0.7 Standard and Enterprise Editions on: • Solaris 8 or 9, 64-bit • AIX 5.1 or 5.2, 64-bit • HPUX 11i, 64 bit	NA	Y	Y	Y	N	Y[4]	Y	Y	Y	Y	Y	Y

[1] Remote MS SQL Server configurations are not available with Unix based Process Engines.

[2] Capture 5.0 supports the use of local and remote Oracle repositories and can be used with a Content Engine that uses any of the P8 3.5.0 supported databases.

[3] Rendition Engine is not supported on Windows 2003

[4] Capture 5.0 supports the use of local and remote Oracle repositories and can be used with a Content Engine that uses any of the P8 3.5.0 supported databases.

	Content Engine – local DB	Content Engine – remote DB	Process Engine – local DB	Process Engine – remote DB	Process Analyzer – local\remote DB	Capture – batch scanning	eForms – data lookups\submits	Rendition Engine	Image Services – local DB	Image Services – remote DB	Records Manager	Team Collaboration
Oracle 9.2.0.7 • Red Hat Linux AS 3.0	N	Y	N	Y	N	N	N	N	N	N	N	N
IBM DB2 8.1.8 / 8.1.9 Enterprise Server Edition (64-bit) on: • AIX 5.2, ML3 APAR IY59082	NA	Y	N	Y	N	Y[5]	Y	N	N	Y	Y[6]	Y
IBM DB2 8.2.1 / 8.2.2 Enterprise Server Edition (64-bit) on: • AIX 5.2, ML3 APAR IY59082	NA	Y	N	Y	N	Y[7]	Y	N	N	Y	Y[8]	Y

CAUTION FileNet does not support direct modification of database values in FileNet-created tablespaces. Use only FileNet-provided tools or API calls to update these database values.

Oracle Support Information

The following RDBMS (Relational Database Management Server) patch levels are required for FileNet P8 server components when using Oracle.

• Oracle 9i Server 9.2.0.7

The following are required for the CE object store service machines only: (MTS refers to Oracle's Microsoft Transaction Server, not Oracle's Multi-Threaded Server").

• Oracle OLEDB 9.2.0.7 - 4622165 (includes OLEDB and MTS) or Oracle MTS 9.2.0.7 - 4622171

  NOTE: Both the OLDEB and MTS components must be installed from this patch. You will need to run the Oracle installer twice to apply the OLEDB and MTS fixes.

IBM DB2 Support Information

Either IBM DB2 version 8.1.9 or version 8.2.2 is supported as the minimum DB2 release. The exception to this is Image Services, which will support version 8.1.4 or later. Image Services support includes the 8.2.2 release line.

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[5] Capture 5.0 does not support the use of DB2 as a Capture repository; however Capture can be used with a Content Engine that uses DB2.

[6] Is supported in Development , Demonstration, and Proof of Concept environments only.

[7] Capture 5.0 does not support the use of DB2 as a Capture repository; however Capture can be used with a Content Engine that uses DB2.

[8] Is supported in Development , Demonstration, and Proof of Concept environments only.

NOTES

- The Content Engine requires DB2 8.1 FP9 (aka 8.2 FP2) plus IBM hot fix patch 14068 to be installed on all Content Engine. You can obtain this patch from P8CE3.5.0-1003 from FileNet Customer Service.

- FileNet Content Engine Hot Fix Pack 2 (P8CE-3.5.0-002) must be applied to the FileNet P8 Content Engine.

- Records Manager supports IBM DB2 for development, demonstration, and proof of concept installations only.

Supported Platforms for Optional Server Components

The following defines the supported platforms for optional FileNet P8 server components.

eForms Server

The eForms for P8 Workplace is supported on the same platforms as the Application Engine (defined above).

eForms Print Services

Operating System	Other	Hardware
Windows 2000 Server SP4 (Server, Advanced, Datacenter)	.NET Framework 1.1 IIS 5.0 or later:	Intel
Windows 2003 Server (Standard, Enterprise, Datacenter)	.NET Framework 1.1 IIS 5.0 or later:	Intel

Image Services Resource Adapter (ISRA) 3.2 1

		BEA Systems WebLogic App Server	IBM WebSphere App Server	JBoss App Server	Oracle App Server	Sun Java System App Server
Release	Image Services	Windows Server 2000 SP4				
3.1	3.6 SP2+, 4.0 SP1+	7.0, 8.1	5.0.2, 5.1	3.2.3, 3.2.5	9i, 10g	7.0
3.2.1	3.6 SP2+, 4.0 SP1+	7.0 SP4, 8.1 SP4, 5, 6	5.1.1.x, 6.0.x	3.2.x , 4.0.x	9i, 10g v2	7.0, 8.1.02
Release	Image Services	Windows Server 2003 SP1				
3.1	3.6 SP2+, 4.0 SP1+	7.0, 8.1	5.1	3.2.3, 3.2.5	9i, 10g	7.0
3.2.1	3.6 SP2+, 4.0 SP1+	7.0 SP4, 8.1 SP4, 5, 6	5.1.1.x, 6.0.x	3.2.x, 4.0.x	9i, 10g v2	7.0, 8.1.02
Release	Image Services	AIX 4.3.3, 5.1, 5.2				
3.1	3.6 SP2+, 4.0 SP1+	7.0, 8.1	5.0.2, 5.1	N/S	9i, 10g	N/S
3.2.1	3.6 SP2+, 4.0 SP1+	7.0 SP4, 8.1 SP4, 5, 6	5.1.1.x, 6.0.x	N/S	9i, 10g v2	7.0, 8.1.02

Release	Image Services	HP –UX 11i v1				
3.1	3.6 SP2+, 4.0 SP1+	7.0, 8.1	5.0.2, 5.1	N/S	9i, 10g	N/S
3.2.1	3.6 SP2+, 4.0 SP1+	7.0 SP4, 8.1 SP4, 5, 6	5.1.1.x, 6.0.x	N/S	9i, 10g v2	7.0, 8.1.02
Release	Image Services	Solaris 8.0 /9.0				
3.1	3.6 SP2+, 4.0 SP1+	7.0, 8.1	5.0.2, 5.1	3.2.3, 3.2.5	9i, 10g	7.0
3.2.1	3.6 SP2+, 4.0 SP1+	7.0 SP4, 8.1 SP4, 5, 6	5.1.1.x, 6.0.x	3.2.x, 4.0.x	9i, 10g v2	7.0, 8.1.02
Release	Image Services	Linux AS 3.0				
3.1	3.6 SP2+, 4.0 SP1+	7.0, 8.1	5.0.2, 5.1	3.2.3, 3.2.5	9i, 10g	7.0
3.2.1	3.6 SP2+, 4.0 SP1+	7.0 SP4, 8.1 SP4, 5, 6	5.1.1.x, 6.0.x	3.2.x, 4.0.x	9i, 10g v2	7.0, 8.1.02

NOTES

- In all cases, refer to the Application Server documentation for specifics on dependencies relating to OS releases (including patches and service packs), JDK, etc.

- The minimum Image Services version supported is 3.6 SP2.
  Except as noted, you can install and run with more current patch releases, service packs, or minor releases of Image Services.

- Only Server and Advanced Server versions of Windows 2000 and Windows 2003 are supported.

- For HP-UX, ISRA 3.1 is supported only on version 11i.

- ISRA 3.1 Patch 14 or later is required for Oracle App Server 9i/10g support.
  Platform support for this Operating Systems has been added in ISRA 3.2 release.

- For supported Operating System versions, you can install and run with more current patch releases, service packs, or minor releases (except as noted).

- ISRA does not support Tomcat, however an Application Engine that utilizes Tomcat can be configured to support a remote ISRA installation that is using a different application server.

iLog 4.6 Rules Engine

The iLog Rules Engine is supported on the same platforms as the Process Engine (defined above).

Process Analyzer

Operating System	Other	Hardware

Windows 2000 Server SP4 (Server, Advanced, Datacenter)	MS SQL Server 2000 Enterprise, SP3a MS SQL Server 2000 Analysis Services SP3a MS SQL Server 2000 Driver for JDBC 2.2 MS Scripting Engine 5.6	Intel
Windows 2003 Server (Standard, Enterprise, Datacenter)	MS SQL Server 2000 Enterprise, SP3a MS SQL Server 2000 Analysis Services SP3a MS SQL Server 2000 Driver for JDBC 2.2 MS Scripting Engine 5.6	Intel

Process Simulator

Operating System	Other	Hardware
Windows 2000 Server SP4 (Server, Advanced, Datacenter)	SQL Server 2000 Driver for JDBC SP2 or Higher	Intel
Windows 2003 Server (Standard, Enterprise, Datacenter)	SQL Server 2000 Driver for JDBC SP2 or Higher	Intel

NOTE: The Process Simulator requires a dedicated Process Analyzer. The Process Analyzer used by the Process Engine cannot be used by the Process Simulator.

Records Manager

Application Server	Operating System	Hardware
Tomcat 5.0.18	Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	SPARC SPARC Intel (32 bit) Intel (32 bit)
Tomcat 5.5.4	Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	SPARC SPARC Intel (32 bit) Intel (32 bit)
JBoss 3.2.x	Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	SPARC SPARC Intel (32 bit) Intel (32 bit)
JBoss 4.0.1	Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	SPARC SPARC Intel (32 bit) Intel (32 bit)

Application Server	Operating System	Hardware
BEA WebLogic 7.0 SP4	HP-UX 11i w/Patch Bundle B.11.11.0306.1 IBM AIX 5.1 IBM AIX 5.2 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC RS6000 RS6000 SPARC SPARC Intel (32 bit) Intel (32 bit)
BEA WebLogic 8.1 SP4	HP-UX 11i w/Patch Bundle B.11.11.0306.1 (WL 8.1 SP3) IBM AIX 5.1 IBM AIX 5.2 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC RS6000 RS6000 SPARC SPARC Intel (32 bit) Intel (32 bit)
IBM WebSphere Application Server 5.1.1 (Base, Network Deployment, WBISF)	HP-UX 11i w/Patch Bundle B.11.11.0306.1 IBM AIX 5.1 IBM AIX 5.2 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC RS6000 RS6000 SPARC SPARC Intel (32 bit) Intel (32 bit)
IBM WebSphere Application Server 6.0 (Base, Network Deployment)	HP-UX 11i w/Patch Bundle B.11.11.0306.1 IBM AIX 5.2 IBM AIX 5.3 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC RS6000 RS6000 SPARC SPARC Intel (32 bit) Intel (32 bit)

Crystal Reports

Crystal Reports 11.0 Developer and Server Editions are optional components to support reporting capabilities. If it is used, the Crystal Reports server:

- Must be collocated with a Content Engine object store service and client connectivity module or can be collocated with the Content Engine Server

- Must be part of the same FileNet P8 domain as the Content Engine server hosting the Records Manager data model

Required Crystal Reports components are:

- o Report Designer

- o Crystal Enterprise Embedded

Custom Applications

Custom applications developed using the Records Manager Java API can run on any OS that supports running Sun or IBM JDK 1.3.1, including:

- o HP-UX 11i w/Patch Bundle B.11.11.0306.1

- o IBM AIX 5.1
- o IBM AIX 5.2
- o Solaris 8
- o Solaris 9
- o Windows 2000 Server SP4 (Server, Advanced)
- o Windows 2003 Server (Standard, Enterprise, Datacenter)

Applications must use Sun JRE 1.3.1 on Windows, and Sun, IBM, or HP JRE 1.3.1 on the respective OS.

Disposition Sweep

Custom applications developed using the Records Manager Java API can run on any OS that supports running Sun or IBM JDK 1.3.1, including:

- o HP-UX 11i w/Patch Bundle B.11.11.0306.1
- o IBM AIX 5.1
- o IBM AIX 5.2
- o Solaris 8
- o Solaris 9
- o Windows 2000 Server SP4 (Server, Advanced)
- o Windows 2003 Server (Standard, Enterprise, Datacenter)

Disposition Sweep uses Sun JRE 1.3.1 on Windows, and Sun, IBM, or HP JRE 1.3.1 on the respective OS.

Team Collaboration Manager

Collaboration Application Server

Collaboration Application Server	Operating System	Hardware
Tomcat 5.0.18	Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	SPARC SPARC Intel (32 bit) Intel (32 bit)
Tomcat 5.5.4	Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	SPARC SPARC Intel (32 bit) Intel (32 bit)
JBoss 3.2.x	Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	SPARC SPARC Intel (32 bit) Intel (32 bit)
JBoss 4.0.1	RedHat Linux AS 3.0 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	Intel (32 bit) SPARC SPARC Intel (32 bit) Intel (32 bit)

Collaboration Application Server	Operating System	Hardware
BEA WebLogic 7.0 SP4	HP-UX 11i w/Patch Bundle B.11.11.0306.1 IBM AIX 5.1 IBM AIX 5.2 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC RS6000 RS6000 SPARC SPARC Intel (32 bit) Intel (32 bit)
BEA WebLogic 8.1 SP4	HP-UX 11i w/Patch Bundle B.11.11.0306.1 (WL 8.1 SP3) IBM AIX 5.1 IBM AIX 5.2 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC RS6000 RS6000 SPARC SPARC Intel (32 bit) Intel (32 bit)
IBM WebSphere Application Server 5.1.1 (Base, Network Deployment, WBISF)	HP-UX 11i w/Patch Bundle B.11.11.0306.1 IBM AIX 5.1 IBM AIX 5.2 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC RS6000 RS6000 SPARC SPARC Intel (32 bit) Intel (32 bit)
IBM WebSphere Application Server 6.0 (Base, Network Deployment)	HP-UX 11i w/Patch Bundle B.11.11.0306.1 IBM AIX 5.2 IBM AIX 5.3 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC RS6000 RS6000 SPARC SPARC Intel (32 bit) Intel (32 bit)

Collaboration Engine

Operating System	Hardware
HP-UX 11i w/Patch Bundle B.11.11.0306.1	PA-RISC
IBM AIX 5.2	RS6000
IBM AIX 5.3	RS6000
RedHat Linux AS 3.0	Intel (32 bit)
Solaris 8	SPARC
Solaris 9	SPARC
Windows 2000 Server SP4 (Server, Advanced)	Intel (32 bit)
Windows 2003 Server (Standard, Enterprise, Datacenter)	Intel (32 bit)

Collaboration Mail Server

Mail Server	Operating System	Hardware
Apache Mail Server 2.2.0	HP-UX 11i w/Patch Bundle B.11.11.0306.1 IBM AIX 5.2 IBM AIX 5.3 RedHat Linux AS 3.0 Solaris 8 Solaris 9 Windows 2000 Server SP4 (Server, Advanced) Windows 2003 Server (Standard, Enterprise, Datacenter)	PA-RISC RS6000 RS6000 Intel (32 bit) SPARC SPARC Intel (32 bit) Intel (32 bit)

LDAP Directory Server Support

LDAP Server	Operating Systems (OS)
MS Active Directory	Windows 2000 Server SP4 (Server, Advanced, Datacenter) Windows 2003 Server (Standard, Enterprise, Datacenter)
Sun ONE Directory Server 5.1 SP2	See Sun documentation
Sun Java System Directory Server 5.2	See Sun documentation
Novell eDirectory 8.7.3	See Novell Documentation

NOTES

- The Process Engine supports only low-order ASCII characters on UNIX platforms for LDAP users and groups. On Windows platforms, the Process Engine supports both low-order and high-order ASCII characters.

- FileNet P8 3.5 does not support Microsoft Active Directory Application mode. It does support mixed, native and Windows 2003 Active Directory modes.

Server Virtualization Technologies

FileNet is continually striving to meet our clients' diverse and ever changing needs. There is an increasing trend in the marketplace towards the use of virtualization technologies to maximize hardware efficiency and to minimize costs. These technologies (examples include: VMWare, Microsoft Virtual Server, Sun Dynamic System Domains, HP VSE, and LPARS) primarily focus on the ability to operate several "virtual" machines on one physical machine thus utilizing system resources more efficiently in a "managed" environment.

Many of our clients have requested qualification of our product offerings under some of these different virtualization technologies. FileNet makes extensive use of some of these technologies in our development, QA and support organizations to develop, test, and support our products in these different environments. However, it is important to note that FileNet does not attempt to certify every possible setup of all our product offerings in every different virtualization metaphor and cannot individually certify specific client configurations.

That said, these virtualization technologies are designed to be transparent to the software that they host and to not require special effort from software providers to code and test for their use.

FileNet's products have been tested and qualified on specific operating systems. With very few exceptions, we consider configurations or virtualizations that are supported for that operating system to be an acceptable configuration unless we have identified issues and documented it as unsupported.

Unless explicitly stated otherwise and assuming FileNet Software in installed in an environment that is natively supported for the hardware/OS in question, FileNet does not require that its products be run in isolation of other 3rd party products. In the event a specific 3rd party product interferes with the correct functioning of its products, FileNet may, at its sole discretion, opt to address the issue in its products or, alternatively, require that its products not be co-located with this specific 3rd party product. FileNet has not tested and makes no claims with reference to the performance of its products in environments where its products are co-located with 3rd party products. FileNet does not guarantee that requirements and restrictions for co-location with 3rd party products will be maintained in future product releases.

Support Statement

Unless otherwise noted, FileNet does support deployments in a virtualized environment. Virtualization technologies are designed to be transparent to the software that they host, and not require special effort from the software vendors for their use. Testing in the FileNet labs has found that while this is largely true, systems deployed in a virtualized environment may have issues related to performance and communication with peripheral devices and other hardware components.

With regard to performance, running in a virtualized environment is likely to result in increased CPU utilization or other hardware resource consumption. As a result of this increase, system workload capacity may be reduced, and transaction response times may increase.

To that end, assuming that the virtualized machine is configured per FileNet requirements, FileNet supports deployments of all its products, unless otherwise noted, in a virtualized environment. However, in a virtualized environment, FileNet may not be able to resolve issues related to system performance or issues that FileNet suspects are related to communication with peripheral devices, and other hardware components (such as network cards, disk controllers, etc.).

In the event that FileNet determines a particular issue is specific to virtualization technologies (such as performance or communication with peripheral and hardware components), FileNet may require that the customer reproduce the issue in a non-virtualized configuration. Due to the nature of virtualization technologies, FileNet cannot guarantee resolutions to issues that are caused because a deployment is virtualized.

Additionally, it is the customer's responsibility to ensure that other associated 3rd party software is supported to run in the given virtualized environment (such as application severs, RDBMS, OS, etc.) by the original vendor of that software.

Known Issues

Items listed in this section are known issues when certain FileNet components are deployed in a virtualized environment.

Content Engine

When deployed on VMWare, there are known performance issues related to content retrieval and authoring when using the Content Engine. The severity of the performance issue can vary depending on other specifics of the deployment. Each customer will need to perform their own testing to ensure the system configuration is performing to their satisfaction. FileNet has reported this issue to VMWare, and it is currently under investigation.

Image Services

Optical libraries attached via SCSI hardware are known to be incompatible with VMWare because Image Services must maintain exclusive control over the hardware.

Capture

When deployed on VMWare, the operating system may have issues recognizing scanners and scan cards.

Client Environment Requirements

About this Topic

This topic describes the client environment requirements for the FileNet Content Manager (CM) and Business Process Manager (BPM) client software. Except as noted, you can install and run with more current patch releases, service packs, or minor releases of the software listed in the following subtopics as long as they are forward compatible.

Supported Platforms for CM and BPM Client Components

This section identifies the supported software platforms for the FileNet CM and BPM client software.

Client Component	Operating Systems /Browser/Applications/Other
Enterprise Manager	Operating Systems: Windows 2000 Professional SP4 Windows 2000 Server SP4 (all editions) Windows 2003 Server (all editions) Windows XP Professional SP2

Client Component	Operating Systems /Browser/Applications/Other

Workplace	Operating Systems:
	
	    Any operating system supported by the browsers listed below
	
	    Mac Clients are not currently supported.
	
	Browsers:
	
	    Browsers that support HTML 4.0 and Cascading Style Sheets 2.0
	
	    Tested browsers include:
	
	    o Microsoft Internet Explorer 5.5 SP2
	
	    o Microsoft Internet Explorer 6.0
	
	    o Netscape 6.2.1

MS Office and Outlook Integration	Operating Systems:
	
	    Windows 2000 Professional SP4
	
	    Windows XP Professional SP2
	
	Applications:
	
	    Microsoft Office/Outlook 2000 SP3
	
	    Microsoft Office/Outlook XP SP3
	
	    Microsoft Office 2003 SP1

Client Component	Operating Systems /Browser/Applications/Other

WebDAV	Operating Systems:
	
	    Windows 2000 Professional SP4
	
	    Windows 2000 Server, Advanced Server SP4
	
	    Windows 2003 Server (all editions)
	
	    Windows XP Professional SP2
	
	Browsers:
	
	    Microsoft Internet Explorer 5.5 SP2
	
	    Microsoft Internet Explorer 6.0
	
	Applications:
	
	    Adobe GoLive 6.0
	
	    Macromedia Dreamweaver 4.0.1, MX, MX 2004
	
	    Microsoft Office* 2000 SP3
	
	    Microsoft Office* 2003 SP1
	
	    Microsoft Office* XP SP3
	
	    Microsoft Windows Explorer
	
	Web Servers:
	    IIS 5.0
	
	    IIS 6.0
	
	    _____
	
	* excluding Microsoft Access

Java Support

Client Layer

JRE 1.4.2 or JRE 1.5 is required for all FileNet P8 Platform Java applets. The Application Engine installer bundles JRE 1.4.2 and downloads it to the client, if it's not already installed.

Supported Platforms for Optional Client Components

This section identifies the supported software platforms for the optional FileNet P8 client components.

Optional Client Component	Operating Systems /Browser/Applications/Other
Capture 4.1	Operating Systems: Windows 2000 Professional, SP4 Windows 2000 Server and Advanced Server Windows 2003 (Standard and Enterprise) Windows XP Professional, SP2
Capture 5.0	Operating Systems Windows XP Professional with SP2 Windows 2000 Professional with SP4 Windows 2000 Server with SP4 Windows Advanced Server with SP4 Windows 2003 Server (Standard and Enterprise editions only)
eForms for P8 Workplace (3.5)	Operating Systems: Any operating system supported by the browsers listed below. Mac Clients are not currently supported. Browsers: Browsers that support HTML 4.0, Cascading Style Sheets 2.0, and Javascript 1.5 Tested browsers include: o Microsoft Internet Explorer 6.0 SP1 and higher o Netscape 7.1
eForms Designer 5.0	Operating Systems: Windows 2000 Professional SP4 Windows XP Professional SP2 Browsers: Internet Explorer 5.0.1 SP2 and higher (for viewing Help files).

Optional Client Component	Operating Systems /Browser/Applications/Other
Process Analyzer client	Operating Systems: Any Windows operating system that supports the applications listed below. Applications: Microsoft Excel* 2000 SP3 Microsoft Excel* 2003 SP1 Microsoft Excel* XP SP3 _____ * all require query analyzer and pivot table support options
Records Manager application	Operating Systems: Any operating system supported by the browsers listed below. Mac Clients are not currently supported. Browsers: Browsers that support HTML 4.0 and Cascading Style Sheets 2.0 Tested browsers include: o Microsoft Internet Explorer 5.5 SP2 o Microsoft Internet Explorer 6.0 o Netscape 6.2.1
Team Collaboration Manager application	Operating Systems: Any operating system supported by the browsers listed below. Mac Clients are not currently supported. Browsers: o Microsoft Internet Explorer 6.0 o Netscape 6.2.1 Other browsers that support HTML 4.0 and Cascading Style Sheets 2.0

Application Development

Content and Process Java APIs

The Content and Process Java APIs support the following Java 2 SDK levels and platforms (refer to the Application Engine section for details on supported Application Server platforms):

OS Supported by FileNet Java APIs	Java 2 SDK Supported
Windows *	Sun J2SDK for Windows (1.4.2, 1.4.1, 1.4.0, 1.3.1)

OS Supported by FileNet Java APIs	Java 2 SDK Supported
Windows 2000 Server, SP4 (Server, Advanced, Datacenter) Windows 2003 Server, (Standard, Enterprise, Datacenter)	IBM J2SDK for Windows (1.4.1, 1.4.0, 1.3.1)
Solaris * Solaris 8, Patch Cluster 29 Solaris 9, Patch Cluster 11	Sun J2SDK for Solaris (1.4.2, 1.4.1, 1.4.0, 1.3.1) IBM J2SDK for Solaris (1.4.1, 1.4.0, 1.3.1)
AIX * AIX 5.1, Maintenance Level 4 AIX 5.2, Maintenance Level 2	IBM 32-bit SDK for AIX (1.4.1, 1.4.0, 1.3.1)
HP-UX * HP-UX 11i, Patch Bundle B.11.11.0306.1	HP-UX SDK PA-RISC (1.4.2, 1.4.1, 1.4.0, 1.3.1)
Linux * Red Hat Linux AS 3.0	Sun J2SDK for Linux (1.4.2, 1.4.1, 1.4.0, 1.3.1)

* Or any other operating system that supports running at least Sun JDK 1.3.1 or IBM JDK 1.3.1.

NOTE FileNet P8 Java APIs may be used to develop EJBs as long as the application is deployed on an application server that supports EJB 2.0 (e.g., BEA WebLogic Server 8.x. and IBM WebSphere Application Server 5.x).

Content and Process Web Services APIs

The Content and Process Web Services Integration (WSI) APIs are supported for the following development environments:

CE WSI

- Visual Studio .NET 2003 with Web Services Enhancements (WSE) 2.0 SP2 and Microsoft .NET Framework 1.1 SP1

- IBM Rational Application Developer for WebSphere Software v6.0 and Interim Fix PQ98856

PE WSI

- VisualStudio .NET 2003 with Web Services Enhancements (WSE) 2.0 SP2 and Microsoft .NET Framework 1.1 SP1

- WebSphere Studio Application Developer 5.1

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The following applications have been qualified. The JAWS reader was used during the qualification.

- Workplace

- eForms for P8 Workplace

- Records Manager

- Team Collaboration Manager

- Capture

Microsoft Terminal Services and Citrix Support

The following is a list of applications that are supported for use with Microsoft Windows 2000 Terminal Services, Microsoft Windows Server 2003 Terminal Services, and Citrix:

- Workplace HTML interfaces, Image Viewer (other applets are **not** supported), Application Integration including the Express Addin.

- Enterprise Manager

- Records Manager

- eForms (HTML forms)

NOTES

- Installation of the Application Engine via Terminal Services is supported; installation of the Content Engine and Process Engine is NOT supported.

- Administration of the Application Engine and Content Engine (Enterprise Manager) is supported. However, the initiation of any Process-related services, such as the router, is not supported.

- IS products are **not** supported under Terminal Services. This is documented in the IS reference manual titled "Installation & Configuration Procedures for Windows Server, Release 4.0.0", and applies to all IS releases. Terminal Services does not allow Xapex and other GUI functions to operate correctly. Some GUI's will lock-up, not generate correctly, or might be missing selection options.

Scalability / High Availability / Disaster Recovery

Web Farms

FileNet P8 Platform supports configurations that separate HTTP servers from Application Servers. In such cases, you could use hardware-based solutions, such as Cisco routers, to build a web farm of HTTP servers.

Application Server Farms

FileNet Application Engine supports both hardware-based and software-based load balancing. Some examples would be:

- Use BEA WebSphere Server or WebLogic Application Server along with a Cisco router (hardware-based load balancing)

- Use IBM WebSphere Clones (software-based load balancing) combined with a router

- Use BEA WebLogic Clusters (software-based load balancing) combined with a router

- Use JBoss Clusters (software-based load balancing) combined with a router

FileNet eForms Server supports the same high-availability options as Application Engine.

Image Services Resource Adapter (ISRA) Server Farms

ISRA 3.2.1 supports web farms on the WebSphere/AIX and WebSphere/Solaris platforms only.

Back-end Server Farms

In addition to web farms, Content Engine can be load balanced in a farm environment using third-party farming software or hardware.

Rendition Engine provides its own multi-server support mechanism for scalability. Additional plug-in servers are required when more Rendition Engine servers are added.

High Availability

Content Engine and Process Engine are supported with the following Cluster Server products:

- Microsoft Cluster Server (version 1.1 on Windows 2000 and version 1.2 on Windows 2003)

- VERITAS Cluster Server version 4.0 for Solaris, AIX, and HP; version 4.1 for Windows 2000, 2003.

- Oracle 9i Real Application Cluster (RAC)

Details regarding support will be defined in the *FileNet P8 Platform High Availability Technical Notice*.

Disaster Recovery

With the exception of Image Services, FileNet P8 Platform components support VERITAS NetBackup and VERITAS Volume Replicator, as follows:

Operating System	Net Backup	Volume Replicator
AIX 5.1 and AIX 5.2	5.0	4.0
HP UX 11i	5.0	3.5

| Solaris 8 and Solaris 9 | 5.0 | 4.0 |
| Windows 2000 and 2003 Server Families | 5.0 | 3.1 |

Coverage with these products includes:

- Content Engine: replication and backup of file store data, file store transaction logs, database files (MS SQL Server and Oracle data files, redo logs)

- Process Engine: replication and backup of PE configuration data (fnsw/local-solaris, fnsw_loc-windows directories), database files (MS SQL Server and Oracle data files, redo logs)

- Application Engine: bootstrap.properties file

Collocation Support

Collocation within FileNet P8 Platform Components

You can collocate FileNet P8 components as follows:

- A Content Engine and a Process Engine can share the same MS SQL Server 2000 or Oracle servers and database instances. The CE and PE support default and named instances of MS SQL Server 2000 for both local and remote databases.

- The Application Engine should **not** be collocated with either Content Engine or Process Engine components.

- The Application Engine should be installed only once per application server (or virtual machine or WebSphere LPAR). You may, however, deploy multiple instances of a single Application Engine version per application server.

- The Rendition Engine collocated with the Content Engine is not a supported production configuration. Production environments must have a dedicated server for the Rendition Engine.

- eForms Server must be collocated on an Application Engine machine.

- Records Manager must be collocated on an Application Engine machine.

- For development and demo purposes only, all the FileNet P8 Platform and Add-On components can be collocated on the same Windows 2000 or Windows 2003 server (except the Rendition Engine which is supported on Windows 2000 only). A single-machine setup is not a typical production deployment scenario, and is only appropriate for development and demonstration purposes. Although supported, best practices for having highly available and scalable configurations suggest that the AE, CE and PE engines cannot be co-located on a single server.

- ISRA and the Application Engine cannot be collocated on Tomcat.

For a list of recommended configurations, refer to the "Sample Configuration" topic in the *FileNet P8 Platform 3.5.0 Installation and Upgrade Guide*.

Collocation with IM Suite Components

Clients

- IDM Desktop and WebServices 3.2 and 3.3 thick and thin clients (except Application Integration controls) can be collocated with Workplace and custom FileNet P8 Platform applications. The same is true for Open Client.

- WebServices 3.2 and 3.3 thin Application Integration controls can be collocated with Workplace Application Integration controls.

- Capture 4.1 must be installed on a server that is in the same Windows domain as the Content Engine and requires that the Content Engine client connectivity modules are installed on the Capture station. However, Capture 4.1 should not be collocated with either the Content Engine or FileNet Enterprise Manager.

Services

- FileNet P8 Platform engines cannot be collocated with any IM Suite based services including IS, CS, Workflow Services, and Web Services.

Databases

- FileNet P8 Platform and IM Suite engines cannot share the same database instance. They can reside on the same database server in separate instances or databases. See the "Installation Planning Considerations" topic in the *FileNet P8 Platform Installation and Upgrade Guide* for more information.

Hardware Requirements

Storage Devices

EMC Centera

The Content Engine can be configured to store content on EMC Centera storage devices. This capability is certified with the EMC Centera 2.3 hardware/software platform, Compliance and Compliance Plus licensing models are supported.

NetApp

The Content Engine can be configured to store content on NetApp devices, and this has been certified with Data ONTAP 7.x

Recommended Disk Space and Memory Requirements

The table below identifies the recommended minimum disk space and memory requirements. Disk space requirements are for FileNet software only; additional space is required for data and related third-party applications, such as Microsoft Office for Rendition Engine and Application Integration. Memory requirements are highly dependent upon actual transaction workload and user activity. Recommendations below are estimates for entry-level deployments.

Component	Disk Space (MB)	Memory	Processor Speed
Content Manager and Business Process Manager Server Components			
Workplace		Per JVM	
• Windows	150	2 GB	
• AIX, HP, Solaris, RedHat Linux	250	2 GB	
Content Engine	600	2 GB	
Process Engine			
• Windows	230	2 GB	
• AIX, HP, Solaris	1000	2 GB	
Process Analyzer	60	2 GB	
Process Simulator	60	2 GB	
Rendition Engine	55	1 GB	
Documentation	100	512 MB	

Component	Disk Space (MB)	Memory	Processor Speed
CM and BPM Client Components			
Enterprise Manager	70	512 MB	
Microsoft Office and Outlook Integration (Does not include space required for Office or Outlook)	30[9]	512 MB	
eForms			
Designer	40	512 MB	
Server	30	Per JVM 2 GB	
Print Server	10	1 GB	
Portal Integration			
FileNet P8 Portlets	170	1.5 GB, with 1 GB for JVM	AIX, HP, Solaris: 1 GHz Windows: 2 GHz

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[9] 18 MB of the 30 MB of space is used during the installation process for temporary files. These temporary files are removed at the end of the installation process