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SMARTEAM V5R14 Product Hardware and Software Requirements

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Part Number: EDR-A9-140505

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INTRODUCTION

This document outlines the minimum hardware and software requirements needed for each SMARTEAM product.

The requirements presented in this document are the minimum needed for SMARTEAM products to operate without regard to special performance issues. If higher performance is required for a specific SMARTEAM installation, an assessment and sizing should be performed before providing any specific hardware recommendation.

Note: The latest version of the SMARTEAM V5R14 Hardware and Software Requirements document is available from the SmarTeam support website at::

https://support.smarteam.com/V5R14_hw_sw_reqs.htm

The latest information on CAD and OS compatibility is available from the SmarTeam support website at:

https://support.smarteam.com/main/Downloads/Documents/SmarTeam_Compatibility_Info.asp

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RELEASE SUPPORTED DATABASE SERVERS

- IBM DB2 7.2 with FixPak 8
- IBM DB2 8.1 with FixPak 3
- Oracle 9.20 (9i)
- Oracle 8.1.7 (8i)
- Microsoft SQL Server 2000 SP3
- MSDE 2000 SP3

For database operating system requirements, refer to the appropriate vendor at the following sites:

http://www.oracle.com/products

http://www-306.ibm.com/software/data/db2/

http://www.microsoft.com/sql/default.asp

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RELEASE SUPPORTED MINIMAL HARDWARE REQUIREMENTS

IMPORTANT: All SMARTEAM products must be installed on member servers only. They must not be installed on a server that also provides additional network services, for example, domain controllers (PDC or BDP), WINS servers, DNS servers.

SMARTEAM – Foundation

Vault Server

- Dual CPU Pentium III 700 MHz or higher
- Memory: 1 GB or higher
- Hard disk space: 750 MB. More disk space may be required for actual vault directories, if these reside on the same computer
- Network connection to Servers: TCP/IP.

IMPORTANT: As Vault Server workloads may vary in different production environments, it is recommended that you review specific Vault requirements in the Vault Sizing Guide document, available on the SMARTEAM Documentation CD.

Session / Configuration Services

- Dual CPU Pentium III 700 MHz or higher
- Memory: 1 GB or higher
- Hard disk space: 750 MB. More disk space may be required for actual vault directories, if these reside on the same computer
- Network connection to Servers: TCP/IP.

Web Editor Server (provides web access for SMARTEAM – Web Editor and/or SMARTEAM – Navigator)

Note: The Web Editor Server must be installed on a separate dedicated machine.

- Dual CPU, Pentium III 700 MHz or higher
- Memory: 1 GB RAM or higher
- Hard disk space: 750 MB. Additional disk space may be required for temporary files.
- 100 MB/sec NIC or higher

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Community Workspace Server (provides web access for SMARTEAM – Community Workspace)

Note: The Community Workspace Server must be installed on a separated dedicated machine.

- Dual CPU, Pentium III 700 MHz or higher
- Memory: 1GB RAM or higher
- Hard disk space: 750 MB. Additional disk space may be required for temporary files.
- 100 MB/sec NIC or higher

SMARTEAM – Web Viewer Server

- Dual Pentium III 700 MHz or higher
- Memory: 1 GB RAM or higher
- Hard disk space: 1 GB. Additional disk space may be required for temporary files.
- 100 MB/sec NIC

Note: The Web Viewer is used both by the Web Server and the Community Workspace Server. It is highly recommended that the Web Viewer Server reside on a separate dedicated server machine.

SMARTEAM - Workflow Server

- Dual CPU Pentium III 700Mhz or higher
- Memory: 1 GB RAM or higher
- Hard disk space: 750 MB

SMARTEAM – Gateway Server

- Dual Processor – Pentium III 700 MHz or higher
- Memory: 1 GB or higher
- Hard disk space: 750 MB
- 100 MB/sec NIC or higher

Note: Based on workload, level of communication and volume of exchanged data, the Gateway server may be installed on a dedicated machine.

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SMARTEAM – Editor

- Pentium III 700 MHz or higher
- Memory: 256MB or higher
- Hard disk space: 750MB
- Network connection to SMARTEAM – Foundation Servers: TCP/IP

SMARTEAM – Web Editor/Navigator

- Refer to the Supported Operating System and browser hardware prerequisites.

SMARTEAM – Community Workspace

- Refer to the Supported Operating System and browser hardware prerequisites.

SMARTEAM – Multi-site

Database replication

- Dual Pentium III 1.26 GHz or better
- Memory: 1 GB RAM or higher
- Storage: Dual channel RAID controller with 2+5 disks using Ultra 160 SCSI drives 10,000 RPM or higher)
- Available 192 KB connection between sites.
- 1GB Network adapter with CAT6 cable (recommended)

Note: A Professional Database Administrator (DBA) with knowledge of Oracle Replication is required on site for installation and ongoing maintenance.

Vault replication

- RDS (RepliWeb Deployment Suite) does not require special hardware configuration and can run on the SMARTEAM Vault Server or any other computer with sufficient resources. Resource allocation for RepliWeb does not require a dedicated or specialized computer.
- Dual CPU Pentium III 700 or higher
- Memory: 1 GB RAM or higher
- Hard disk space: 100 MB

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- Available 192KB connection between sites (depending on database size and frequency of updates). This parameter depends on the total data volume, number of users, files and intensity of communications.

Note: For hardware requirements of the SMARTEAM Vault Server, refer to the SMARTEAM – Foundation requirements section.

SMARTEAM – SA Adapter

The SA adapter is used with SMARTEAM – Gateway (GWY).

- As specified for SMARTEAM – Gateway

IMPORTANT: Please be aware of the minimum SAP R/3 hardware requirements.

SMARTEAM – OA Adapter

The OA adapter is used with SMARTEAM – Gateway (GWY).

- As specified for SMARTEAM – Gateway

IMPORTANT: Please be aware of the minimum Oracle E-Business 11*i* Application hardware requirements.

SMARTEAM – Workflow

Client components

- As specified for SMARTEAM – Editor (EDR).

SMARTEAM – BOM

- As specified for SMARTEAM – Editor (EDR).

Note: SMARTEAM - BOM Briefcase can be used without SMARTEAM – Editor.

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SMARTEAM – CATIA Integration

- As specified for SMARTEAM – Editor (EDR).

IMPORTANT: Please be aware of the minimum CATIA hardware requirements.

SMARTEAM – CATIA Xtended Integration

Client:

- Refer to the Supported Operating System and browser hardware prerequisites.

SMARTEAM – SE Integration

- As specified for SMARTEAM – Editor (EDR).

IMPORTANT: Please be aware of the minimum Solid Edge hardware requirements.

SMARTEAM – AC Integration

- As specified for SMARTEAM – Editor (EDR).

IMPORTANT: Please be aware of the minimum AutoCAD hardware requirements.

SMARTEAM – MD Integration

- As specified for SMARTEAM – Editor (EDR).

IMPORTANT: Please be aware of the minimum Mechanical Desktop hardware requirements.

SMARTEAM – IN Integration

- As specified for SMARTEAM – Editor (EDR).

IMPORTANT: Please be aware of the minimum Inventor hardware requirements.

SMARTEAM – MI Integration

- As specified for SMARTEAM – Editor (EDR).

IMPORTANT: Please be aware of the minimum MicroStation hardware requirements.

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SMARTEAM – P Integration

- As specified for SMARTEAM – Editor (EDR).

IMPORTANT: Please be aware of the minimum Pro/ENGINEER hardware requirements.

SMARTEAM – Program Management

- As specified for SMARTEAM - Web Editor.

Note: MS-Project® 2003 or 2002 is needed for editing of Project files stored in SMARTEAM using MS-Project. Please be aware of the MS-Project hardware requirements.

SMARTEAM – Electronics Template

- As specified for SMARTEAM – Editor (EDR).

SMARTEAM – FDA Compliance

- As specified for SMARTEAM – Editor (EDR).

IMPORTANT: The Job Server requirements are the same as the requirements for SMARTEAM – Editor (EDR).

SMARTEAM – Development Suite

- As specified for SMARTEAM – Editor (EDR).
- For i-Platform Server component:
  - Dual CPU, Pentium III 700 MHz or higher
  - Memory: 1GB RAM or higher
  - Hard disk space: 750 MB
  - 10/100 Mb/sec NIC or higher

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RELEASE SUPPORTED SOFTWARE REQUIREMENTS

SMARTEAM – Foundation

Vault Server

- Windows 2000 Server Service Pack 3 or 4, or Windows Server 2003 Standard Edition or Enterprise Edition
- Vault directories must be deployed on an NTFS partition if they reside on Windows 2000 SP3 or 4 or Windows Server 2003 file server. Vault directories may also be deployed on Unix/Linux/Novell platforms. For Unix/Linux/Novell usage Samba 2.2.8a Windows emulation must be used.

IMPORTANT: As Vault Server workloads may vary in different production environments, it is recommended to review specific Vault requirements. For more information, refer to the Vault Sizing Guide document, available on the SMARTEAM Documentation CD.

Session / Configuration Services

- Windows 2000 Server Service Pack 3 or 4, or Windows Server 2003 Standard Edition or Enterprise Edition

Web Editor Server

- Microsoft Windows 2000 Server Service Pack 3 or 4, Windows Server 2003 Standard Edition or Enterprise Edition
- Microsoft® .NET Framework 1.1 Service Pack 1

  The Installation of this prerequisite Service Pack 1 must be downloaded from Microsoft web site:

  For Windows 2000 - Microsoft .NET Framework 1.1 Service Pack 1

  For Windows 2003 - Microsoft .NET Framework 1.1 Service Pack 1 for Windows Server 2003

- Web Server – One of the following:
  - Microsoft Internet Information Services 5.0 (IIS 5) for Windows 2000 Server
  - Microsoft Internet Information Services 6.0 (IIS 6) for Windows Server 2003
  - IBM WebSphere Application Server (WAS) 4.0 with FixPak 6
  - IBM WebSphere Application Server 5.0.2 base or express edition

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Note: When using Windows Server 2003, verify that ASP.NET is installed:
Navigate to **Control Panel** / **Add-Remove Software** / **Windows Components** / **Application Server**, and verify that the ASP.NET component is checked.

- Internet Protocol (TCP/IP) with permanent IP address
- Microsoft Internet Explorer 5.5 SP2 or higher
- Database client
- SMARTEAM – Editor V5R14
- Local or network access to SMARTEAM – Web Viewer (see below)

Note: For V5R14, SMARTEAM'S Vault Server and Web Server can be used for demo purposes on machines which are running Microsoft Windows XP Professional SP1 or SP2. Although Windows XP is not planned to be used as a server, tests have been performed to ensure that the system will work properly during demos. It is not recommended to use Microsoft Windows XP Professional SP1 in production, due to the fact that Windows XP system is not aimed to be used as a server

Community Workspace Server

- Microsoft Windows 2000 Server Service Pack 3 or 4, Windows Server 2003 Standard Edition or Enterprise Edition
- Microsoft .NET Framework 1.1 Service Pack 1

  The installation of this sp1 must be downloaded from Microsoft website at: For Windows 2000 - Microsoft .NET Framework 1.1 Service Pack 1

  For Windows 2003 - Microsoft .NET Framework 1.1 Service Pack 1 for Windows Server 2003
- Web Server:
  - Microsoft Internet Information Services 5.0 (IIS 5) for Windows 2000 Server
  - Microsoft Internet Information Services 6.0 (IIS 6) for Windows Server 2003

Note: When using Windows Server 2003, make sure ASP.NET is installed.
Navigate to **Control Panel/Add-Remove Software/Windows Components/Application Server**, and verify that ASP.NET component is checked.

  - IBM WebSphere Application Server (WAS) 4.0 with FixPak 6
  - IBM WebSphere Application Server 5.0.2 base or express edition

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- Internet Protocol (TCP/IP) with permanent IP address
- Microsoft Internet Explorer 5.5 SP2 or higher
- Database client
- SMARTEAM – Editor V5R14
- Local or network access to SMARTEAM – Web Viewer

SMARTEAM Web Viewer Server

- Microsoft Windows 2000 Server with Service Pack 3 or 4, Windows Server 2003 Standard Edition or Enterprise Edition.
- Microsoft Internet Information Services 5.0, or IBM WebSphere Application Server (WAS) 5.02 express or base edition
- Internet Protocol (TCP/IP) with permanent IP address
- Internet Explorer 5.5 SP2 or higher

SMARTEAM Workflow Server

- Windows 2000 Server SP3 or 4, or Windows Server 2003 Enterprise Edition or Standard Edition
- SMARTEAM – Editor V5R14

Full Text Search Server

- Microsoft Windows 2000 Server with Internet Information Services 5.0 or Windows Server 2003 Standard Edition with IIS 6.0

IMPORTANT: The Full Text Search database search capability is supported only within Microsoft SQL Server or Oracle, according to SMARTEAM supported database versions.

- If the selected database is Microsoft SQL Server:
  - MS SQL Server's Full Text Search component should be selected and installed during the MS-SQL Database Server installation.
- If the selected database is Oracle:
  - Oracle's Intermedia Cartridge component should be selected and installed during the Oracle Database Server installation.

SMARTEAM – FDA Compliance

Job Server

- Windows 2000 Server Service Pack 3 or 4 with IIS 5 or Windows 2003 Enterprise or Standard Edition with IIS 6.0, for SMTP email services

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- SMARTEAM – Editor V5R14 and its prerequisites
- FDA – Job Server module
    - Authoring software for printing / silent release
      (Microsoft Word and Excel, AutoCAD in their supported versions)

SMARTEAM – Gateway

- Choice of integration middleware:
    - WebSphere
        - For message-based integration, IBM MQSeries, Version 5.2.1, IBM WebSphere MQ, Version 5.3 or higher
        - For BI broker-based integration, IBM WebSphere Business Integration Server Version 4.2.2 and IBM WebSphere Business Integration Server Express V4.3 - both rely on IBM WebSphere Business Integration Adapter Framework, Version 2.4.0
        - Microsoft Windows 2000 Server SP4

      For additional details on WBI or WMQ and their prerequisites, please refer to: www.ibm.com/software/integration

    Or

    - Microsoft BizTalk
        - Microsoft BizTalk Server 2002 SP1 Partner, Standard Edition or Enterprise Edition

          Microsoft SQL Server 2000 SP3 is required for Microsoft BizTalk (BizTalk Partner Edition requires MSDE only).
        - Microsoft Windows 2000 Server SP3 or 4, or Windows 2003 Enterprise Edition or Standard Edition

      For additional details on Microsoft BizTalk and its prerequisites, refer to http://www.microsoft.com/biztalk

- SMARTEAM – Editor V514

Notes:

Administrator-level knowledge of middleware (BizTalk or WBI) is required for implementation.

The implementation of this product also requires prior SMARTEAM certification.

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SMARTEAM – Editor

- Windows 2000 Professional /Server Service Pack 3 or Service Pack 4, Windows XP Pro SP1 or SP2 (recommended: SP1), Windows 2003 Standard Edition or Enterprise Edition.
- SMARTEAM – Editor includes Microsoft Word and Excel integrations. Both integrations support Word and Excel in versions 2002 SP2 and 2003.
- For sending email messages from SMARTEAM – Editor, Microsoft Outlook 2002 and 2003, and Lotus Notes 5.0, 6.5 are supported.
- Microsoft Internet Information Services (IIS) is required for SMARTEAM – Editor if the System Configuration Editor is installed as part of the SMARTEAM Administrator tools.

SMARTEAM – Web Editor

Operating Systems

- Microsoft Windows 2000 SP3 or 4/ Windows XP Professional SP1 or SP2 (recommended SP1)
- Sun Solaris 8
- IBM AIX 4.3.3 or AIX 5.1
- HP-UX 11.x
- Linux Red Hat 8

Web Browsers

- Windows: Microsoft Internet Explorer 5.5 SP2 or higher
- Sun Solaris: Netscape 7.0
- IBM AIX: Mozilla 1.4
- HP-UX: Netscape 7.0
- Linux : Mozilla 1.4

Other

- For sending email messages from SMARTEAM – Web Editor, Microsoft Outlook 2002 and 2003, and Lotus Notes 5.0, 6.5 are supported.

SMARTEAM – Navigator

- Refer to SMARTEAM – Web Editor/Navigator requirements

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SMARTEAM – Community Workspace

Operating Systems

- Microsoft Windows 2000 SP3 or 4,Windows XP Professional SP1 or SP2 (recommended with SP1)

Web Browsers

- Windows: Microsoft Internet Explorer 5.5 SP2 or higher

Other

- Extraction utility for zip files
- For sending email messages from SMARTEAM – Community Workspace, Microsoft Outlook 2002 and 2003, and Lotus Notes 5.0, 6.5 are supported.

SMARTEAM – Multi-site

Database replication

- Windows 2000 Server SP3 or 4, Windows Server 2003 Standard Edition or Enterprise Edition or Windows XP Pro SP1 or SP2.
- SMARTEAM – Editor V5R14
- Oracle 8.1.7 or Oracle 9i

IMPORTANT: The Database Replication mechanism is currently available on Oracle only.

Notes:

A professional Database Administrator (DBA) with knowledge of Oracle Replication is required onsite for installation and on-going maintenance.

The implementation of this product requires prior SMARTEAM certification.

Vault Replication

SMARTEAM – Multi-site provides the means to configure and work in an environment where each vault has a parallel vault on all other sites For Vault Server system requirements, please refer to the SMARTEAM – Foundation Vault Server documentation.

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Prerequisites:

- A server named RDS, which is used to replicate files between sites.
- A service named RDM, which complements the RDS server. RDM is required only in cases in which RDS is running under the Win32 environment, and the Vault directories reside on a computer other than the Vault Server machine.

Installations of these two programs are not included on the SMARTEAM - Multi-site CD.

Code must be downloaded from SmarTeam's website, accessible through the IBM support site at http://techsupport.services.ibm.com/engineering/support

SmarTeam Corporation provides a free license for RDS if both of the following conditions are fulfilled:

- The platform is either Win32 or Linux
- The host computers do not have more than two CPUs

If RDM is required, and the conditions for a free license of RDS are met, an RDM license will also be provided free of charge by SmarTeam Corporation.

Each vault site requires an RDS installation. RDS can be installed on Windows, Linux, or Unix.

- In a Win32 environment, RDS should be installed on the Vault Server machine.
- If vault directories reside on Linux or Unix, there are two possible RDS installation configurations:
  - Recommended (for performance reasons) – RDS is installed directly on the Linux/Unix machine.
  - Optional – RDS is installed on the Vault Server machine.

Full details on specific supported operating system platforms for RDS can be found at:
http://www.repliweb.com/html/products/rdsplatforms.html

SMARTEAM – SA Adapter

This adapter is used with SMARTEAM – Gateway (GWY).

- SMARTEAM – Gateway V514
- Additional requirements as specified for SMARTEAM – Gateway (GWY).
- SAP R/3 2.1 to 4.6.
- SAP R/3 client, version 2.1 or higher

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Notes:

This adapter can be used only when Microsoft BizTalk Server is deployed as SMARTEAM – Gateway middleware.

Please be aware of the minimum SAP R/3 client system requirements.

Administrator-level knowledge of SAP, minimal SAP programming and configuration knowledge, and participation of a SAP administrator in the implementation planning and implementation are all required.

SMARTEAM – OA Adapter

The OA adapter is used with SMARTEAM – Gateway (GWY).

- SMARTEAM – Gateway V5R14
- Additional requirements as specified in SMARTEAM – Gateway (GWY).
- Oracle Application 11i Patch 11.5.4, 11.5.5, 11.5.6, 11.5.7, 11.5.8
- Oracle client with service to OA server
- SMARTEAM – Gateway Oracle Applications packages

Notes:

This adapter can be used only when Microsoft BizTalk Server is deployed as SMARTEAM – Gateway middleware.

Please be aware of the minimum Oracle Application client system requirements.

Administrator-level knowledge of Oracle Applications, minimal Oracle Applications programming and configuration knowledge, and participation of an Oracle Applications administrator in the planning and implementation are all required.

SMARTEAM – Workflow

- SMARTEAM – Editor V5R14, and its prerequisites

SMARTEAM – BOM

- SMARTEAM – Editor V5R14, and its prerequisites – except Lotus Notes, which cannot be used with BOM.

Note: The SMARTEAM - BOM Briefcase module can be used without SMARTEAM – Editor.

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SMARTEAM – CATIA Integration

- SMARTEAM – Editor V5R14, and its prerequisites
- CATIA and ENOVIA DMU Navigator V5R14 or V5R13 or V5R12

Note: Please be aware of the minimum CATIA V5R14 OR V5R13 system requirements.

SMARTEAM – CATIA Xtended Integration

- Windows Operating System
  - Web browser: MS Internet Explorer versions as supported by SMARTEAM - Web Editor
  - SMARTEAM - CATIA Xtended Integration (Windows client components)
- HP-UX Operating System
  - CATIA V5R14 on HP11.0 and its prerequisites.
  - SMARTEAM - CATIA Xtended Integration (HP-UX client components)
  - Web browser (on HP): Mozilla 1.4

SMARTEAM – SE Integration

- SMARTEAM – Editor V5R14, and its prerequisites
- Solid Edge V14 or V15

Note: Please be aware of the minimum Solid Edge system requirements.

SMARTEAM – AC Integration

- SMARTEAM – Editor V5R14, and its prerequisites
- AutoCAD 2004 DX, 2005

Note: Please be aware of the minimum AutoCAD system requirements.

SMARTEAM – MD Integration

- SMARTEAM – Editor V5R14, and its prerequisites
- Autodesk Mechanical Desktop 2004 DX

Note: Please be aware of the minimum Mechanical Desktop system requirements.

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SMARTEAM – IN Integration

- SMARTEAM – Editor V5R14, and its prerequisites
- Inventor 8 or 9

Note: Please be aware of the minimum Inventor system requirements.

SMARTEAM – MI Integration

- SMARTEAM – Editor V5R14, and its prerequisites
- MicroStation V8.

Note: Please be aware of the minimum MicroStation system requirements.

SMARTEAM – P Integration

- SMARTEAM – Editor V5R14, and its prerequisites
- Pro/ENGINEER 2001 or Wildfire (Windows only)
- Java Run Time 1.1.8 (can be downloaded from http://java.sun.com/products/archive/jdk/1.1.8_006/jre/index.html)

Note: Please be aware of the minimum Pro/ENGINEER system requirements.

SMARTEAM – Program Management

- Refer to Web Editor Server and its prerequisites, as indicated under SMARTEAM – Foundation, for IIS as Web Server only.
- For client - As specified for SMARTEAM – Web Editor, for Windows OS only.
- Workflow Server – needed to enable notifications and alerts.
- MS-Project® 2003, 2002 on the Web Viewer Server - needed to view Gantt Charts using the Web Viewer.

Note: MS-Project® 2003 or 2002 is needed for editing of Project files stored in SMARTEAM. Please be aware of MS-Project software requirements

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SMARTEAM – Electronics Template

- SMARTEAM – Editor V5R14, and its prerequisites
- SMARTEAM – BOM V5R14
- SMARTEAM – Workflow V5R14

SMARTEAM – FDA Compliance

- SMARTEAM – Editor V5R14, and its prerequisites
- SMARTEAM – Workflow V5R14

SMARTEAM – Development Suite

i-Platform SDK Component

- Server
  - Windows 2000 or Windows 2003 Server Service Pack 3 or 4
  - Microsoft Internet Information Services 5.0
  - SMARTEAM – Editor V5R14
- Client
  - A Java development environment compatible with JDK 1.3 is required to use the supplied libraries and samples

SmartIXF SDK Component

- Windows 2000 Professional or Server Service Pack 3 or 4, Windows XP Professional (recommended SP1)

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ADDITIONAL SOFTWARE REQUIREMENTS

License Use Management

IBM License Use Management (LUM) is required to serve concurrent licenses across a network.

- IBM LUM 4.6.5 or 4.6.7 Runtime Servers can be used on Windows or Unix license servers, as supported by IBM.

Refer to IBM's website at http://www-4.ibm.com/software/is/lum for updated information on LUM system requirements.

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