



ENOVIA SmarTeam

SmarTeam V5R21 Product Hardware and Software Requirements

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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.

The latest version of the SmarTeam V5R21 Hardware and Software Requirements document is available from the ENOVIA SmarTeam Program Directory.

The latest information on CAD and OS compatibility is available at <http://www.3ds.com/support/>

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 BDC), WINS servers, DNS servers.

SERVER PRODUCTS

SMARTTEAM – FOUNDATION

MINIMUM HARDWARE REQUIREMENTS

- Dual Core 1.8 GHz or higher
- Memory: 1 GB or higher
- Hard disk space: 1 GB
- Network connection to servers: TCP/IP

SOFTWARE REQUIREMENTS

- Windows Server 2008 SP2 (32 and 64 bit), Standard Edition or Enterprise Edition
- Windows Server 2008 R2 64 bit, Standard Edition or Enterprise Edition
- Windows XP Pro SP3 (32 bit) (For demo use only)
- Windows XP Pro SP2 (64 bit) (For demo use only)
- Windows Vista Enterprise & Business SP1 (32 and 64 bit) (For demo use only)
- Windows 7 (64 bit) (For demo use only)
- Microsoft Internet Information Services (IIS)
- Microsoft .NET Framework 3.5 SP1

DATABASE CLIENT REQUIREMENTS

- Oracle 11g R2 (32 bit)

Note: Because SmarTeam is a 32 bit application, Oracle 32 bit client installation must be used.

VAULT SERVER

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)
Note: More hard disk space may be required for actual vault directories, if these reside on the same computer

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)
- Vault directories must be deployed on an NTFS partition if they reside on the Windows Server. Vault directories may also be deployed on UNIX/Linux platforms. For UNIX/Linux usage, Samba 2.2.8a Windows emulation must be used.

Notes:

1. As Vault Server workloads may vary in different production environments, it is recommended to review specific Vault requirements. For more information, refer to the SmarTeam – Foundation Administration Guide.
2. For V5R21, SmarTeam Vault Server can be used for demo purposes on machines which are running Microsoft Windows XP Pro. As it is not intended that the Windows XP system be used as a server, it *must not* be used in production.

3. It is highly recommended to install Vault, Workflow and Session/Configuration services on different server machines.

SESSION / CONFIGURATION SERVICES

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)

SMARTTEAM – WORKFLOW SERVER

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)

FULL TEXT SEARCH SERVER

MINIMUM HARDWARE REQUIREMENTS

- For Database requirements, refer to the appropriate vendor at the following sites:
<http://www.oracle.com/products>
<http://www.microsoft.com/sql/default.asp>
- For the Vault refer to the [Vault Server](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#), with the exception of Windows Server 2008 64 bit (not supported)

Notes:

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 Intermediary Cartridge component should be selected and installed during the Oracle Database Server installation.

SMARTTEAM WEB SERVER

SMARTTEAM – WEB EDITOR / SMARTTEAM – NAVIGATOR

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)
- Memory: 2 GB RAM or higher
- 100 MB/sec NIC or higher

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

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)
- Microsoft Internet Information
- Internet Protocol (TCP/IP) with static IP address
- Microsoft Internet Explorer 7
- Microsoft Internet Explorer 8
- Mozilla Firefox 3.6
- SmarTeam – Editor V5R21
- Local or network access to SmarTeam – Web Viewer

Notes:

1. 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.
2. For V5R21, SmarTeam Web Server can be used for Demo purposes on machines running Microsoft Windows XP Pro.

SMARTTEAM – COMMUNITY WORKSPACE

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)
- 100 MB/sec NIC or higher

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

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)

Note: For V5R21, SmarTeam – Community Workspace can be used for Demo purposes on machines running Microsoft Windows XP Pro.

SMARTTEAM – MULTI-SITE

CLIENT (ADMIN/ RUN TIME)

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)
- Administration Tools should be installed on a powerful computer

SERVER DATABASE REPLICATION

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)

- 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

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)
- Oracle 11g R2 (x86 and x64) and its prerequisites
- Refer to [Vault Replication](#)

Notes:

1. The Database Replication mechanism is currently available on Oracle only.
2. A professional Database Administrator (DBA) with knowledge of Oracle Replication is required onsite for installation and ongoing maintenance.
3. For database operating system requirements, refer to the appropriate vendor at the following site: <http://www.oracle.com/products>

SMARTTEAM – MULTI-SITE VAULT

CLIENT (ADMIN/ RUN TIME)

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Multi-Site](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Multi-Site](#)

VAULT REPLICATION

MINIMUM HARDWARE REQUIREMENTS

- RepliWeb R1 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.

Refer to <http://www.repliweb.com> for the minimum hardware requirements of RepliWeb R1 version 4.1.1

- 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.

SOFTWARE REQUIREMENTS

Prerequisites:

- As specified for [SmarTeam – Foundation](#)
- RepliWeb R1 version 4.1.1 (refer to <http://www.repliweb.com> for the minimum software requirements)
- An RDS license for two machines may be requested
- Microsoft DFS (Distributed File System) on Microsoft Windows Server

SMARTTEAM – GATEWAY

MINIMUM HARDWARE REQUIREMENTS

- Dual Core 1.8 GHz or higher
- Memory: 1 GB or higher
- Hard disk space: 2 GB
- 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.

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)
- When using integration middleware: Microsoft BizTalk Server 2006 Standard Edition or Enterprise Edition
- For additional details on Microsoft BizTalk and its prerequisites, refer to <http://www.microsoft.com/biztalk>

Notes:

1. Based on selected integration topology, SmarTeam – Gateway can be used without middleware.
2. Administrator-level knowledge of middleware (BizTalk) is required for implementation.
3. The implementation of this product also requires prior SmarTeam certification.

SMARTTEAM – DEVELOPMENT SUITE

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)
- For i-Platform Server component:
 - 10/100 Mb/sec NIC or higher

SOFTWARE REQUIREMENTS

- SmarTeam – Editor
- Microsoft Internet Explorer 7
- Microsoft Internet Explorer 8
- Mozilla Firefox 3.6
- Sun JDK 1.6.14

DATABASE SERVERS

- ❑ Memory: 2GB or higher
- ❑ Oracle 11g R2 (x86 and x64)

Notes:

- Compatibility issues may occur when the following configuration is used:
 - The Foundation server and the database server are installed on the same machine
 - Foundation is installed as a 32-bit client
- ❑ Microsoft SQL Server 2008 SP2 (x86 and x64)
- ❑ IBM DB2 9.5

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

<http://www.oracle.com/products>

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

<http://www.ibm.com>

Note: After installing the SQL Server 2008 Administrator (with DBA privileges) run the following statements to allow a multi-user environment.

```
ALTER DATABASE [DB NAME] SET READ_COMMITTED_SNAPSHOT ON;
```

```
ALTER DATABASE [DB NAME] SET ALLOW_SNAPSHOT_ISOLATION ON;
```

LICENSE MANAGEMENT

License Management is required to serve concurrent license keys across a network. From V5R21, SmarTeam products are protected, by default, using the Dassault Systèmes License Server (DSLS). Alternatively, IBM's License Use Management (LUM) may be selected instead of DSLS during the installation process.

DSLS

The supported DSLS level is V6R2012.

A DSLS configuration file (DSLicSrv.txt) is required to access concurrent license keys from the servers mentioned above. Refer to the DSLS installation CD for related documentation.

LUM

A LUM configuration file (i4ls.ini) is required to access concurrent license keys from the servers mentioned above.

The minimum IBM LUM level is V4.6.8.3.

The release of IBM LUM, together with any applicable patches, can be downloaded at no charge from <http://www-306.ibm.com/software/awdtools/lum/>.

Refer to the IBM website at <http://www-306.ibm.com/software/awdtools/lum/> for updated information on LUM system requirements.

Note: LUM 4.6.8 cannot be used on virtual machines for Node-lock or server installations.

LDAP

SmarTeam Authentication supports the following LDAP systems:

- Microsoft Active Directory
- IBM Tivoli Directory Server 6.0
- SUN Java System Directory Server Enterprise Edition 5.2
- Novell eDirectory 8.7.3

CLIENT PRODUCTS

WINDOWS APPLICATIONS

SMARTTEAM – EDITOR

MINIMUM HARDWARE REQUIREMENTS

- Dual Core 1.8 GHz or higher
- Memory: 1 GB or higher
- Hard disk space: 1 GB
- Network connection to SmarTeam – Foundation Servers: TCP/IP

SOFTWARE REQUIREMENTS

- Windows XP Pro SP3 (32 bit)
- Windows XP Pro SP2 (64 bit)
- Windows Vista Enterprise & Business SP1 (32 and 64 bit)
- Windows 7 (64 bit)
- SmarTeam – Editor includes Microsoft Word, Excel integrations.
These integrations support Word and Excel in versions:
 - o Microsoft Office 2010

Note: SmarTeam supports Microsoft Office 2010 (32 bit) on both 32 bit and 64 bit operating systems.

- For sending email messages, SmarTeam – Editor supports the SMTP protocol.
- Internet Information Services (IIS) is required for SmarTeam – Editor if the System Configuration Editor is installed as part of the SmarTeam Administrator tools.
 - o For IIS supported versions, refer to [SmarTeam Configuration Editor](#)
- Microsoft .NET Framework 3.5 SP1
- OLEDB provider

DATABASE CLIENT REQUIREMENTS

- Oracle 11g R2 (32 bit)

Note: Because SmarTeam is a 32 bit application, Oracle 32 bit client installation must be used.

SMARTTEAM – BOM

- As specified for [SmarTeam – Editor](#)

SMARTTEAM – WORKFLOW

- As specified for [SmarTeam – Editor](#)

SMARTTEAM – CATIA INTEGRATION

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)
- For CATIA x64 version use one of the following:
 - o Windows XP Pro SP2 (64 bit)
 - o Windows Vista Enterprise & Business SP1 (64 bit)
 - o Windows 7 (64 bit)
- CATIA 32bit + ClientLibraries 32bit
- CATIA 64bit + ClientLibraries 64bit
- SmarTeam – Editor
- CATIA and ENOVIA DMU Navigator V5R19 or V5R20 or V5R21

Note: Windows Server operating systems are not supported by SmarTeam – CATIA Integration. Verify that the minimum CATIA hardware and software requirements are met.

SMARTTEAM – CATIA SUPPLY CHAIN ENGINEERING EXCHANGE

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – CATIA Integration](#)

Note: Windows Server operating systems are not supported by SmarTeam – CATIA Integration. Verify that the minimum CATIA hardware and software requirements are met.

SMARTTEAM – CATIA WEB INTEGRATION

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – CATIA Integration](#)
- As specified for [SmarTeam – Web Editor Client / SmarTeam – Navigator Client](#)
- CATIA and ENOVIA DMU Navigator V5R19, V5R20 or V5R21
- Microsoft Internet Explorer 7
- Microsoft Internet Explorer 8
- Connection to a SmarTeam Web Server

Note: Windows Server operating systems are not supported by SmarTeam – CATIA Web Integration. Verify that the minimum CATIA hardware and software requirements are met.

SMARTTEAM – SOLID EDGE INTEGRATION

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)
- SmarTeam – Editor
- Solid Edge ST3 (32 and 64 bit)

Notes:

Windows Server operating systems are not supported by SmarTeam – Solid Edge Integration. Verify that the minimum Solid Edge hardware and software requirements are met.

Oracle AutoVue Viewer V20 does not support viewing Solid Edge ST3 files.

SMARTTEAM – SOLIDWORKS INTEGRATION

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)
- SmarTeam – Editor
- SolidWorks 2011

Note: Windows Server operating systems are not supported by SmarTeam – SolidWorks Integration. Verify that the minimum SolidWorks hardware and software requirements are met.

SMARTTEAM – AUTOCAD INTEGRATION

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)
- SmarTeam – Editor
- AutoCAD and AutoCAD Mechanical 2011 (32 bit and 64 bit)

Note: Windows Server operating systems are not supported by SmarTeam – AutoCAD Integration. Verify that the minimum AutoCAD hardware and software requirements are met.

SMARTTEAM – INVENTOR INTEGRATION

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)
- SmarTeam – Editor
- Autodesk Inventor 2011 (32 bit and 64 bit)

Note: Windows Server operating systems are not supported by SmarTeam – Inventor Integration. Verify that the minimum Inventor hardware and software requirements are met.

SMARTTEAM – JOB SERVER

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)
- SmarTeam – Editor
- Internet Information Services (IIS) for SMTP email services
- Authoring software for Printing and Silent Release (Microsoft Word and Excel, AutoCAD, SolidWorks in their supported versions)

SMARTTEAM – REGULATORY COMPLIANCE FRAMEWORK

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)

Note: SmarTeam – Job Server must be installed on the site.

SMARTTEAM – PROGRAM MANAGEMENT

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)
- For Project Managers; MS-Project® 2010 (32 bit) on both 32 bit and 64 bit operating systems must also be installed

Notes:

1. SmarTeam supports Microsoft Office 2010 (32 bit) on both 32 bit and 64 bit operating systems.
2. Verify that MS-Project software requirements are met.

WEB CLIENT APPLICATIONS

SMARTeam – WEB EDITOR CLIENT / SMARTeam – NAVIGATOR CLIENT

SOFTWARE REQUIREMENTS

- Operating system, as specified for [SmarTeam – Editor](#).
- Microsoft Internet Explorer 7
- Microsoft Internet Explorer 8
- Mozilla Firefox 3.6
- For performing different actions on the client machine: Sun JRE 1.6.14

Note: The DS viewer and eDrawings viewer are supported on Windows only.

SMARTeam CONFIGURATION EDITOR

SOFTWARE REQUIREMENTS

- Windows XP Pro SP3 (32 bit) (For demo use only)
- Windows XP Pro SP2 (64 bit) (For demo use only)
- Windows 7 (64 bit)
- Microsoft Internet Information Services (IIS)

Note: Microsoft IIS must be installed before installing SmarTeam Configuration Editor

SMARTeam – COMMUNITY WORKSPACE

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Web Editor Client / SmarTeam – Navigator Client](#)
- Extraction utility for zip files

VIEWERS

This section presents the minimum hardware and software requirements needed for each of the viewers used with ENOVIA SmarTeam products.

SMARTTEAM – WEB VIEWER

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)
- 100 MB/sec NIC

SOFTWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)
- Internet Protocol (TCP/IP) with permanent IP address
- Server
 - Windows Server 2008 32-bit
 - Windows Server 2008 64-bit (AutoVue running in 32-bit mode)
 - Windows Server 2008 R2 64-bit (AutoVue running in 32-bit mode)

Important: Windows 2008 R2 has much improved memory-handling abilities compared to Windows 2008. It is recommended that you run AutoVue on Windows 2008R2 for better memory handling and long-term stability.

- Client 32-bit and 64-bit are supported with Windows XP, Windows Vista and Windows 7
 - Internet Explorer 7 (32-bit only)
 - Microsoft Internet Explorer 8 (32-bit only)
 - Firefox 3.6
- Clients running 32-bit Java Virtual Machine with J2SE 6.0 update 21

DS VIEWER SERVER

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Foundation](#)
- Memory: 2 GB RAM or higher
- 100 MB/sec NIC or higher

Note: The DS Viewer is used both by the Web Server and the Community Workspace Server. The DS Viewer Server must reside on a separate dedicated server machine.

SOFTWARE REQUIREMENTS

- Windows XP Pro SP3 (32 bit only)
- Windows Vista Enterprise & Business Editions SP1 (32 bit only)
- Windows Server 2008 SP2 (32 bit only), Standard Edition or Enterprise Edition

- Internet Information Services (IIS)
- Internet Protocol (TCP/IP) with static IP address or dedicated DNS name
- SmarTeam – Editor
- Local or network access from SmarTeam – Web Server and/or SmarTeam – Editor clients

E DRAWINGS

SOFTWARE REQUIREMENTS

- Operating system, as specified for [SmarTeam – Editor](#).
- eDrawings 2011

Note: eDrawings is installed during the SmarTeam V5R21 installation procedure.

3DLIVE WEB SERVICE

SOFTWARE REQUIREMENTS

- Windows Server 2008 SP2 (32 and 64 bit), Standard Edition or Enterprise Edition
- Windows Server 2008 R2 64 bit, Standard Edition or Enterprise Edition
- 3DLive V6R2012

3DLIVE CLIENT APPLICATION

SOFTWARE REQUIREMENTS

- Windows XP Pro SP3 (32 bit)
- Windows XP Pro SP2 (64 bit)
- Windows Vista Enterprise & Business SP1 (32 and 64 bit)
- Windows 7 (64 bit)

3DVIA

FOR SMARTTEAM – EDITOR:

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#)

SOFTWARE REQUIREMENTS

- 3DVia V6R2012

Note: 3DVia V6R2012 is installed during the SmarTeam V5R21 service pack installation.

FOR SMARTTEAM – WEB EDITOR:

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Web Editor](#)

SOFTWARE REQUIREMENTS

- Sun JRE 1.6.14
- 3DVia V6R2012

Note: 3DVia V6R2012 is installed during the SmarTeam V5R21 service pack installation.

SMARTTEAM VIEWER

MINIMUM HARDWARE REQUIREMENTS

- As specified for [SmarTeam – Editor](#) and [SmarTeam – Web Editor / SmarTeam - Navigator](#)

SOFTWARE REQUIREMENTS

- Oracle AutoVue 20.0

Note: The SmarTeam viewer installation that includes Oracle AutoVue 20.0 is provided as part of the installation package.