



ENOVIA SmarTeam

SmarTeam - Multi-site Installation Guide

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Chapter 1: Introduction

Overview

This guide provides all the information necessary for the SmarTeam System Administrator to install the SmarTeam – Multi-site software on multiple, remote, secondary SmarTeam databases and vaults.

Software Location

The installation procedures described is for the SmarTeam – Multi-site software, which is available on the SmarTeam Volume 2 CD-ROM.

Related Documentation

The following documents are referred to in this guide. All of these documents are available on the SmarTeam Documentation CD.

Document	Remarks
SmarTeam Multi-site Administration Guide	Provides administration procedures to successfully setup, customize and maintain a SmarTeam - Multi-site system in a corporate environment
Oracle 9i and 10g Installation Guides	Outlines the procedures required to install an Oracle Server and Oracle Client needed for the SmarTeam Multi-site environment
SmarTeam – Multi-site RepliWeb Installation and Configuration Guide	Describes how to successfully install and configure RepliWeb [®] Deployment Suite (RDS) in a SmarTeam – Multi-site system
SmarTeam – Multi-site DBSITEMANAGER On-line Help	An On-line help detailing: <ul style="list-style-type: none">• Asynchronous data sharing• Instant ability to work simultaneously on shared projects• Periodic replications to synchronize the two databases

Internet Site

You are highly recommended to frequently visit our website for the latest updates and plug-in products, including the latest Service Packs, Program Directory (Release Notes) Hotfixes and technical support at <http://www.3ds.com/support/>.

In addition, you will also be able to view any installation known issues

Chapter 2: Installation Checklist

This checklist gives a detailed list of all the steps that need to be performed and the order in which the products need to be installed. You must complete all the stages in this checklist to successfully install SmarTeam – Multi-site.

*Requirement: M = Mandatory, O = Optional

	Item	M/O*	Remarks
Stage 1: Pre-Installation			
<input type="checkbox"/>	Verify that your hardware and software meet the Multi-site requirements	M	SmarTeam Hardware and Software Requirements Guide
<input type="checkbox"/>	Verify that your Oracle software meet the minimum Multi-site requirements	M	Oracle Software
<input type="checkbox"/>	Check for any additional prerequisites on the SmarTeam Web Site	M	Release Notes of Latest Service Pack in the Release or SmarTeam Support Web Site
Stage 2: Installation Process			
<input type="checkbox"/>	Run SmarTeam – Multi-site installation	M	Installing SmarTeam – Multi-site
Stage 3: Post Installation			
<input type="checkbox"/>	Run SmarTeam – RepliWeb installation	O	Installing and Configuring RepliWeb

Chapter 3: System Requirements

Hardware and Software Requirements

Refer to the Multi-site section in the Hardware and Software Requirements document. It provides details of the hardware, software and system requirements required for a successful Multi-site software installation.

Order of Installation

Refer to [Installation Checklist](#) for a detailed list of all the steps that need to be performed.

The installation procedure is split into three stages:

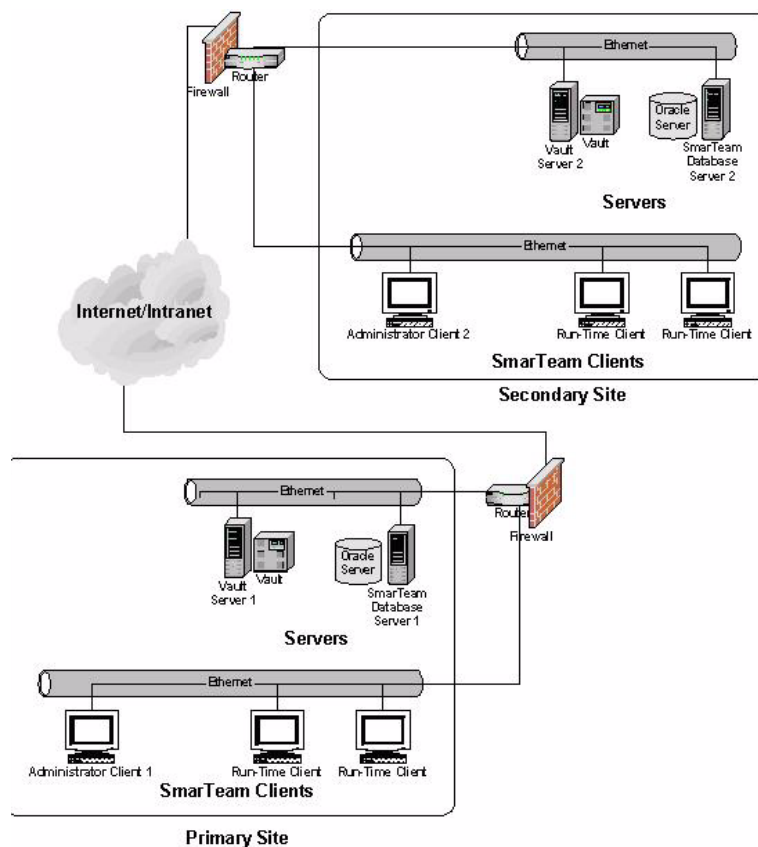
- Stage 1: Pre-Installation (This chapter)
- Stage 2: Installation Process ([Installation Process](#))
- Stage 3: Post Installation ([Post Installation](#))

For a successful installation you must complete one stage before proceeding to the next stage.

SmarTeam – Multi-site Installation Environment

The SmarTeam – Multi-site software provided to support Multi-site systems, consist of a primary, master SmarTeam database with associated file storage vaults connected to multiple, remote secondary SmarTeam databases and vaults. Initially the secondary databases and vaults are replicated from the primary units and, thereafter, primary and secondary units are kept synchronized by an ongoing periodic replication mechanism.

A typical Multi-site system appears as follows:



For a detailed explanation of the SmarTeam – Multi-site Installation environment refer to the following sections.

Primary Site

The Primary Site contains the following elements:

- **SmarTeam Database Server 1:** The SmarTeam Database Server 1 holds and manages the database. An example of a database management function, such as locating the actual record being requested, is performed in the SmarTeam Database Server. The SmarTeam Database Server 1 replicates the database to the secondary site under the SmarTeam Multi-site
- **Vault Server 1:** A Vault Server is a centralized storage server. The Vault Server stores and retrieves files from the SmarTeam to the end user. The Vault Server 1 for the Primary Site is replicated from the Vault on the Secondary Site under SmarTeam – Multi-site
- **Administrator Client 1:** This client manages the Multi-site software and performs upgrades on all sites. It also manages the Oracle installation on the server. The following software is installed on it:
 - Oracle Import/Export
 - DBSiteManager
 - MultisiteDataModelWizard
 - SmartDBRepairing Utility
 - SmartDbUpgrade (recommended but not mandatory)
- **Run-Time Client:** This is the basic SmarTeam Client

Secondary Site

The Secondary Site contains the following elements:

- SmarTeam Database Server 2: This server contains the SmarTeam database which has been replicated from the Primary site under SmarTeam – Multi-site
- Vault Server 2: Vault Server for the Secondary Site. This Vault is replicated from the Vault on the Primary Site under SmarTeam – Multi-site
- Administrator Client 2: This client manages the Multi-site software and also manages the Oracle installation. The following software is installed on it:
 - Oracle Import/Export
 - DBSiteManager (recommended but not mandatory)
 - SmartDBRepairing Utility (recommended but not mandatory)
- Run-Time Client: This is the basic SmarTeam Client

Prerequisites

Before installing SmarTeam – Multi-site, you must perform the following steps:

- Install SmarTeam – Foundation
- Install SmarTeam – Editor

Oracle Software

Oracle 11g R1 (located on the Oracle CD) should already be installed on all clients and servers that participate in the Multi-site system. The minimal required version is 11g R1 is recommended. The release version installed on clients and servers should be the same. For example, if the Oracle installation on the server is 11g R1 then the installation on the clients should also be 11g R1.

It is recommended to install the latest patch/patch set of the appropriate release on both server and client side (after the appropriate internal DBA testing and approval).

All SmarTeam – Editor clients across all sites should use the same viewer for a particular file type. If, for example, one client uses JVue and another creates bitmaps for SolidWorks parts, different redline files will be used and the information stored will not be the same. (This is also true for any SmarTeam – Editor installation.)

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

Chapter 4: Installation Process

This chapter provides a step-by-step description of the installation process for installing the SmarTeam – Multi-site software.

The SmarTeam – Multi-site software consists of the following executables:

- **DB Site Manager:** Used with any SmarTeam database powered by Oracle, providing remote SmarTeam users with the capability of accessing documents owned by other SmarTeam users in the installation to set up the Primary and Secondary Sites. For more information see the Multi-site Administration Guide.
- **MultiSite Data Model Wizard:** Used in the installation to prepare a Data Model for replication. The MultiSite Data Model Wizard enables you to customize a template and create a new data structure.
- **Data Model Propagator:** Used subsequent to installation for propagating changes in the Data Model from Primary to Secondary sites. For more information, see *SmarTeam – Multi-site Administration Guide*.
- **MultiSite Data Model:** a DLL that the Data Model Propagator and the SmarTeam Data Model Designer use in the Multi-site environment.

Installation by Administrator

All SmarTeam products must be installed by a user with Administrator authorization. Depending on the SmarTeam products and tools that are selected for installation, a system message may appear at the end of the installation process, prompting the user to reboot. This indicates that the installation of some components will be completed only after the reboot.

If this occurs, the user who performed the installation with local Administrator rights must log into the system after the reboot.

Installing SmarTeam – Multi-site

The SmarTeam – Multisite consists of two types of installations:

- **SmarTeam – Multi-site Client:** The SmarTeam – Multi-site Client software is installed as part of the SmarTeam – Editor installation process.
- **SmarTeam – Multi-site Admin:** Includes the required components and administrative tools to configure the distributed environment on the SmarTeam – Multi-site server.

Buttons

These buttons are available at the bottom of the installation windows:

- **Next:** Confirms your selection in the current window and proceeds to the next window.
- **Previous:** Enables you to return to the previous window.
- **Exit:** Closes the SmarTeam – Multi-site installation.

Notes:

- If the installation process does not support your Operating System (OS), this message will be displayed:
"The Operating System configuration does not meet the minimum requirements for this type of installation. Please refer to the SmarTeam Hardware and Software Requirements Guide for more information. Would you like to continue with the installation anyway?"
- To run SmarTeam installation as a different user than the currently-logged on user, you can use **Run As** option.
 - a Right click **Install.exe**
 - b Select **Run as**
 - c In the **Run As** window select **The following user** radio button
 - d Enter **Administrator user name** and **password**
 - e Click **OK**

Running the Admin Installation

To begin installing:

1. Run the install.exe file from the SmarTeam – Multi-site CD to start installing SmarTeam – Multi-site software.

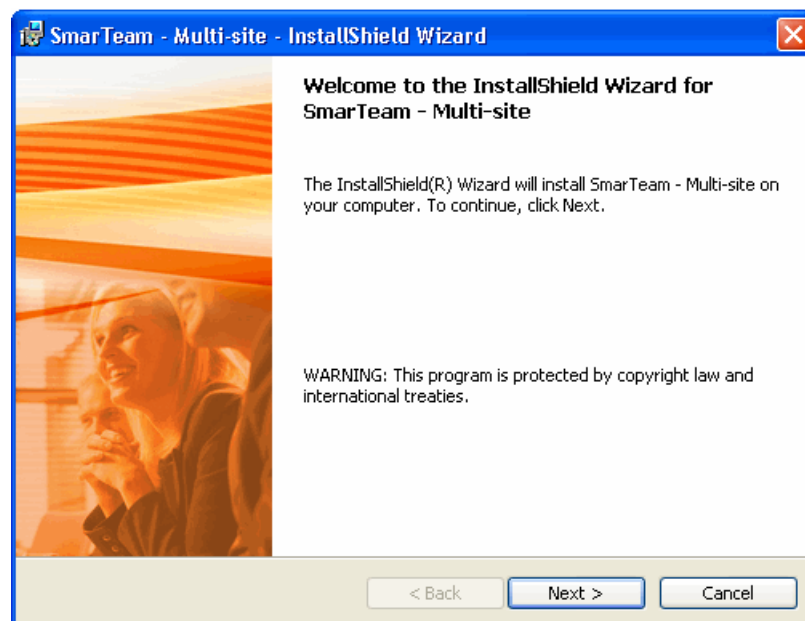
Note: If the installation program does not automatically appear on your screen, click on the **Start** button in the taskbar and select **Run** to open the Run utility. In the Open line, type `D:\install.exe` to run the installation setup program (where D denotes the CD ROM drive in which the SmarTeam – Multi-site CD is inserted.) Click **Install**.

2. Click the SmarTeam – Multi-site option to install the SmarTeam – Multi-site application.



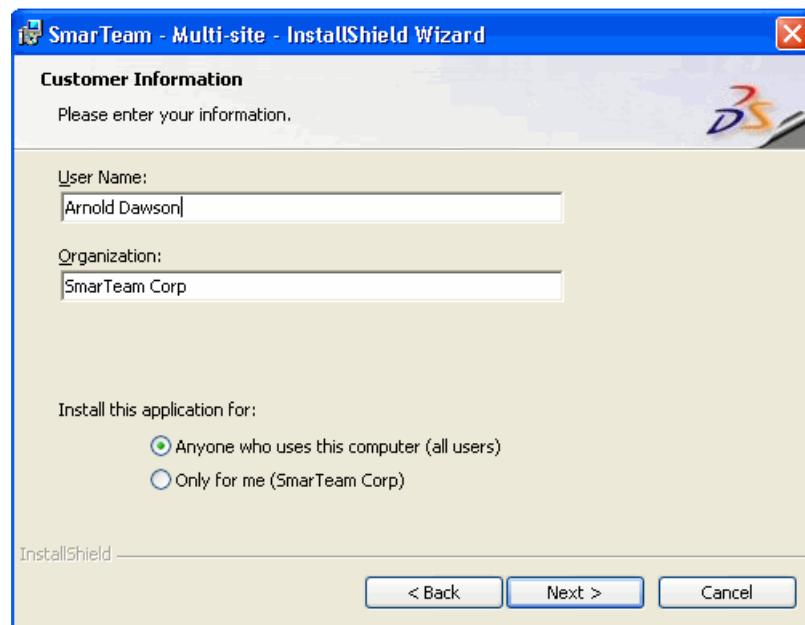
3. In the Welcome window:

- Click **Next** to proceed to the Customer Information window



4. In the Customer Information window do following:

- Enter your **User Name** and **Organization** in the applicable fields
- Verify that the option **Anyone who uses this computer (all users)** is selected
- Click **Next**



5. In the Custom Setup window the following features are displayed:

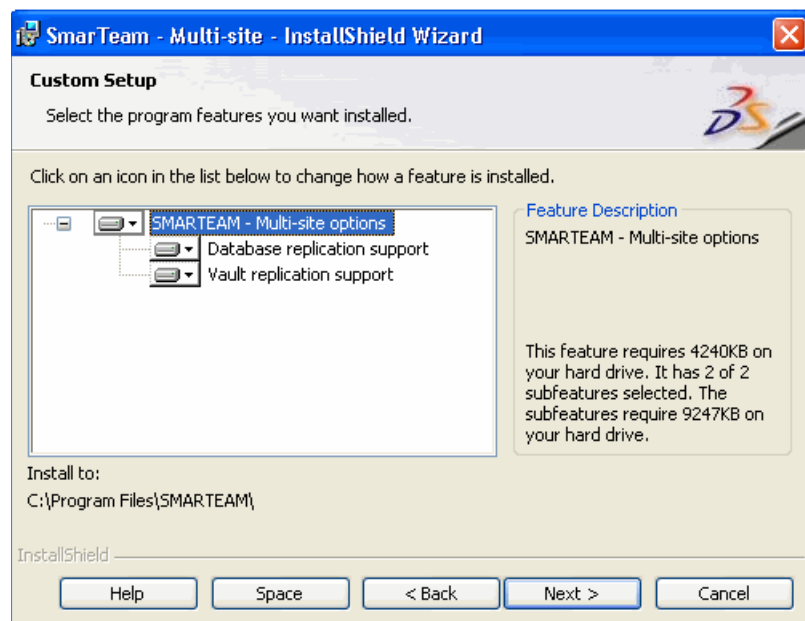
- Database replication support
- Vault replication support

Use the following window options:

- **Help** – to view an explanation of each feature
- **Space** – to view the amount of space available on the selected drive
- **Click Next**

Notes:

- It is recommended to install both features (default).
- To cancel a feature, left click on it and Close.

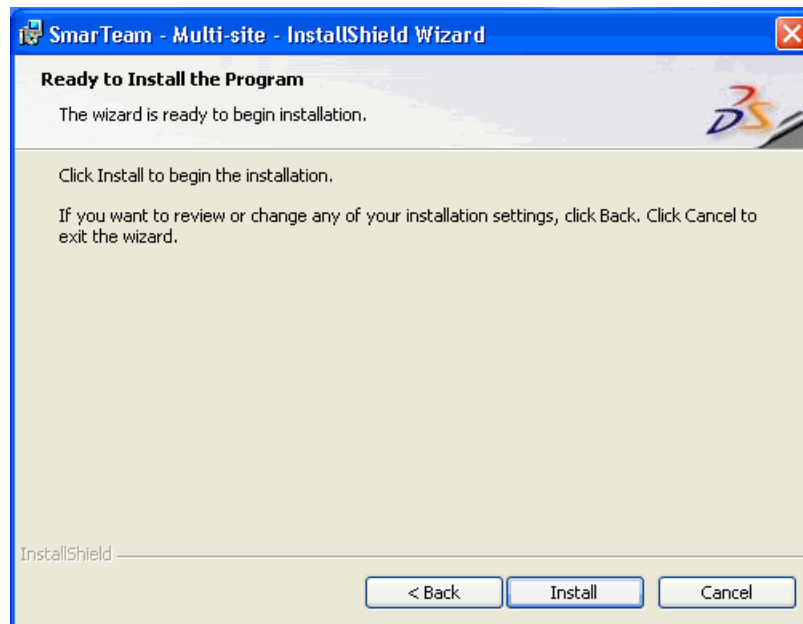


6. In the Ready to Install window:

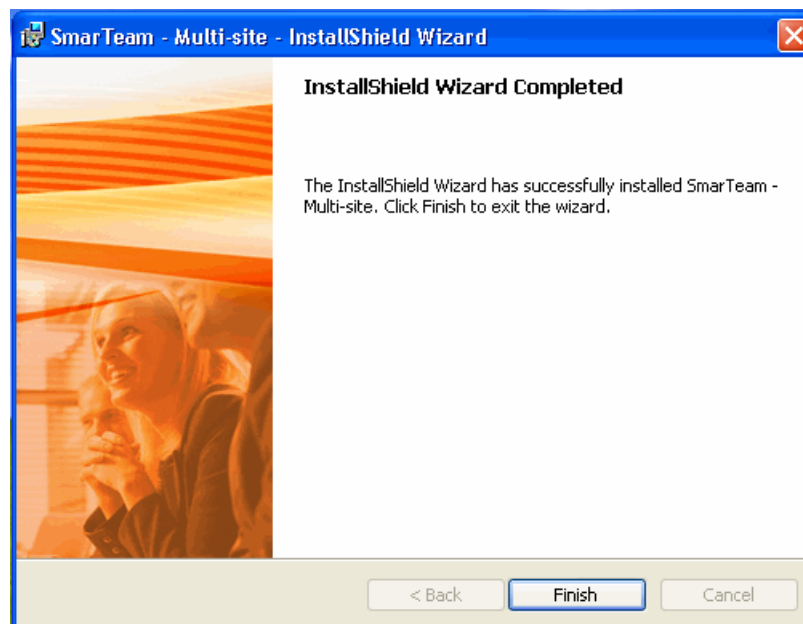
■ **Click Install**

The installation process starts and the Installing SmarTeam – Multi-site progress window appears. The Installation progress and description is shown in the Status bar – the process may take several minutes.

To abort the SmarTeam – Multi-site software installation during this stage, click **Cancel**.



7. After successful installation, the InstallShield Wizard Complete window is displayed. Click **Finish** to complete installation and exit InstallShield Wizard.



The SmarTeam – Multi-site software installation is now complete.

Chapter 5: Post Installation

After the SmarTeam – Multi-site system has been installed, you must perform post-installation tasks as described in this chapter.

Installing and Configuring RepliWeb

Note: This section is relevant if vault replication is needed.

For information on installing and configuring RepliWeb software, refer to the SmarTeam – RepliWeb Installation and Configuration Guide.

To configure the Replication on Demand option in a SmarTeam – Multi-site system, refer to the SmarTeam – Multi-site Administration Guide.

Microsoft® Installer

After installing any SmarTeam product, do not remove or rename any file or directory.

The Microsoft Installer may appear when you launch a SmarTeam application if a directory or file has been deleted, changed or renamed. To prevent this, do the following:

- 1** Open the computer's Event Viewer.
- 2** Search for information or an error event related to the Installer.

For example, a possible cause could be the deletion of the UpdatedScripts folder under the script directory.
- 3** After finding the cause, take the required action: for example, restore a modified file name to its original name, or restore a file that had been deleted.

What Next?

Once you have installed the SmarTeam – Multi-site software, you can further configure the SmarTeam – Multi-site system, refer to the SmarTeam – Multi-site Administration Guide.

Chapter 6: Troubleshooting

Known Issues

For installation known issues, refer to the [SmarTeam Support Web](#) Site.

Frequently Asked Questions

For Frequently asked Questions (FAQ) refer to the [SmarTeam Support Web](#) Site.

Chapter 7: SmarTeam – Multi-site Silent Installation

Overview

This document shows how to use the Windows Installer to perform a silent installation of the SMARTEAM – Multi-site.

The Windows Installer performs a command-line based installation without requiring any user interface dialogs. This allows an administrator to use a script to install SMARTEAM – Multi-site automatically for a group of computers.

Section 2 defines the options and properties that can be used in the command-line installation commands.

Section 3 presents some common command-line installation scenarios.

Command-Line Operation

This section describes how to formulate a command-line command, including how to specify command-line options and properties.

Command-Line Format

Browse to the Setup folder. The general format of a command-line command is:

```
<Setup folder>\Setup.exe /s /v "<installation_flags>  
<commandLine_Properties> <ADDLOCAL_values>"
```

The relevant options are described in detail in the following sections.

Note: When you use setup.exe to run the installation in silent mode, every back-slash "\" must appear in the command line script as a double back-slash. For example, the INSTALLDIR parameter must look like this: **INSTALLDIR="C:\\Program Files\\SmarTeam"**.

Installation Flags

The recommended flags for installation are:

1. /qb : Installation will present a progress bar during the silent installation process, which disappears once the installation is complete.
2. /L*v : Installation logging will be written to a log file in the location specified after this flag.

For example: Using this flag as follows: `/L*v"%temp%\InstallIdentifier.log"`, the installation will reproduce a log file named "InstallIdentifier.log" in the %temp% folder of the local machine.

An example with both flags:

```
/qb /L*v"%temp%\InstallIdentifier.log"
```

Complete detailed information about these options and more can be found at:

<http://msdn2.microsoft.com/en-us/library/aa367988.aspx>

Command-Line Properties

Properties are global variables that Windows® Installer uses during an installation. This section lists the command-line properties that can be used. Each set of properties corresponds to a dialog in the user-interface based installation. The following table shows the parameter, description and the corresponding dialog name.

Note: Command-line options that require a parameter must be specified with no space between the option and its parameter. For example, `[Setup.exe full path] 'ALLUSERS=2'` is valid, while `[Setup.exe full path] ALLUSERS= 2'` or `'ALLUSERS = 2'` are not. Inserting quotation marks around an option's parameter are required only if the parameter contains

spaces.

GUI Dialog	Property	Value	Description
Customer Information	USERNAME	Registered user name for the application	Installer's user name
	COMPANYNAME	Registered company name	Installer's organization
	ALLUSERS	Options: ALLUSERS parameter omitted: ALLUSERS = 2 Per-user installation using folders in user's personal profile. (Installation works only for that user.) ALLUSERS =1 Per-machine installation using folders in "All Users" profile. (Installation works for all users on the machine.)	Administrator access privileges. ALLUSERS property determines if the installation is per-user or per-machine.
Custom Setup	ADDLOCAL	See below for list of parameter values	The value of the ADDLOCAL property is a list of SmarTeam – Multi-site features delimited by commas that are to be installed locally.

Values for ADDLOCAL Parameter

The following parameter values can be used for the ADDLOCAL All parameters listed in the Parameter column (see table) are case-sensitive.

Type of Service	Parameter
Database replication support	Database replication support
	DBSiteManager
	DataModelPropagator
Vault replication support	Multi-site Tools
	Vault replication
SmarTeam Multi-site options	MultiSiteTools DatabaseReplicationSupport DBSiteManager DataModelPropagator VaultReplication
Multi-site Help	MultiSiteHelp
Multi-site SDK	MultiSiteSDK

Silent Installation Example (to Cut and Paste)

Open Start -> Run or Command Prompt window (cmd.exe) and run following line:

Install Multi-site silent installation with log file:

```
"<path to SMARTEAM - Multi-site setup.exe>" /s /v"/qb /L*v
"%temp%\STMultiSiteInstall.log" ALLUSERS=1"
```

Install Multi-site silent installation only with one "VaultReplication" feature (use ADDLOCAL parameter to specify feature to be installed)

```
"<path to SMARTEAM - Multi-site setup.exe>" /s /v"/qb ALLUSERS=1
ADDLOCAL=VaultReplaction"
```

Run silent Multi-site installation using msixec.exe utility and with log file

```
msiexec /I "<path to SmarTeam - Multi-site.msi>" /qb /L*v
"%temp%\STMiultiSiteInstall.log" ALLUSERS=1
```

Run silent Multi-site installation using msiexec.exe utility , install only one feature VaultReplication and with log file,

```
msiexec /I "<path to SmarTeam - Multi-site.msi>" /qb /L*v
"%temp%\STMultiSiteInstall.log" ALLUSERS=1 ADDLOCAL=VaultReplication
```

SmarTeam – Web Editor Silent Installation V5R20 without Reboot

Prerequisites

Before performing the Silent Installation, install the following products on your machine.

Note: If any prerequisite prompts you to restart, perform it.

1. MSI 3.1 - run WindowsInstaller-KB893803-v2-x86.exe from DVD "Data\MSI 3.1" folder
2. DotNet 3.5 from DVD "Data\dotNET Framework installations\DotNet 3.5" folder
 - On 32 BIT machine - run dotnetfx3.exe
 - On 64 BIT machine - run dotnetfx3_x64.exe
 - After installing dot net 3.5 on not English OS please run language pack installation
 - For French OS - run dotnetfx3langpackfr.exe from DVD "Data\dotNET Framework installations\DotNet 3.5\Fr" folder
 - For German OS - dotnetfx3langpackde.exe from DVD "Data\dotNET Framework installations\DotNet 3.5\De" folder
 - For Japanese - dotnetfx3langpackjp.exe DVD "Data\dotNET Framework installations\DotNet 3.5\Jp"
3. SQLExpress 2008 (for SmDemo R19 installation only) - run SQLEXPRESS.EXE from DVD "Data\SQLExpress" folder.
4. J# Redistributable (for SmarTeam DS Viewer Server only) - run vjredist.exe from CD "SmarTeam DS Viewer Server\Data\J#\En" folder.
 - After J# installation on not English OS please run language pack installation:
 - For French OS - run vjredist-LP.exe CD "SmarTeam DS Viewer Server\Data\J#\Fr"
 - For German OS - run vjredist-LP.exe CD "SmarTeam DS Viewer Server\Data\J#\De"
 - For Japanese - run vjredist-LP.exe CD "SmarTeam DS Viewer Server\Data\J#\Ja"

Notes:

- Verify that all prerequisites were installed on your machine.
- For all ENOVIA SmarTeam products other than SmarTeam – Editor, run msi file - **<Product Name>.msi** as described in the installation guides for each product. To suppress reboot, add **REBOOT=ReallySuppress** property when running msi in the silent mode. The property REBOOT=ReallySuppress is not valid for SmarTeam – Web Viewer installation, because it is not a msi project.

Example:

Run the full SmarTeam – Foundation Silent installation using **msiexec.exe** utility and suppress reboot after installation:

```
msiexec /I "<path to SMARTEAM - Foundation.msi >" /qb /L*v c:\FDN.log
SM_LUM_LOCAL_NETWORK=Network SM_LUM_SERVER_LOCATION=diffusion02
SM_SETUP_LANGUAGE=English
ADDFLOCAL=SmarTeam_SDK,SmarTeam,SmarTeamCore,Smart_Service,Vault_Server,SmartFlow_Server,FTS_Server
ALLUSERS=1 USER_NAME=<full username> USER_PASSWORD=<password>
REBOOT=ReallySuppress INSTALLDIR="c:\program files\SmarTeam"
```