



5 Hagavish St.
POB 7020, Kfar Saba 44641 Israel
www.smarteam.com

Telephone: +(972) 9 764 4000
Fax: +(972) 9 764 4001
info@smarteam.com

SMARTTEAM PROCEDURE FOR UPGRADING TO V5R17

© Dassault Systèmes, 2006, 2006. All rights reserved.

CATIA, ENOVIA, DELMIA SMARTEAM and the 3DS logo are registered trademarks of Dassault Systèmes or its subsidiaries in the US and/or other countries and are used under license by IBM.

Viewing Technology Copyright © 1993-2006 Cimmetry Systems, Inc. All Rights Reserved. AutoVue and Cimmetry are trademarks or registered trademarks of Cimmetry Systems, Inc. © Copyrights of Oracle Corporation. All rights reserved. © Copyright IBM Corporation 1994, 2006. All rights reserved. Other portions of the software and all other trademarks or service marks referred to herein belong to their respective owners.

Any use of the Software Products contained in this media, is subject to the LICENSED SOFTWARE TERMS AND CONDITIONS accompanying this media and/or the previous release. The Software Products are protected by international copyright laws and international treaties. Unauthorized use, reproduction and/or distribution of any of the Software Products, or any part thereof, may result in severe civil and/or criminal penalties, and will be prosecuted to the maximum extent possible under the law.

Part Number: GEN-A7-170006

Table of Contents

CHAPTER 1: OVERVIEW.....	2
GENERAL	2
HARDWARE AND SOFTWARE	2
CHAPTER 2: MIGRATION PROCESS PRINCIPLES.....	3
PROCESS FLOWCHART	3
MACHINES REQUIRED FOR UPGRADE PROCESS	4
STAGE 1: TEST ENVIRONMENT	4
Summary of the Upgrade Process	4
STAGE 2: PRODUCTION ENVIRONMENT.....	5
Summary of the Upgrade Process	5
CHAPTER 3: MIGRATION ACTIVITIES.....	7
CORE SERVICES UPGRADE.....	7
CLIENT MACHINE UPGRADE.....	10
WIZSRC UPGRADE.....	13
RUNNING THE DATA MODEL DESIGNER UTILITY	15
UPGRADE WEB SERVERS	17
SMARTEAM – Web Editor & SMARTEAM – Navigator.....	17
SMARTEAM – Community Workspace.....	18
UPGRADE ALL CLIENT MACHINES	18
SMARTEAM – Item and BOM	18
SMARTEAM – FDA Compliance	19
SMARTEAM – MULTI-SITE	20
CHAPTER 4: STANDALONE UPGRADE PROCESS.....	21
CHAPTER 5: SERVERS MIGRATION TO WINDOWS 2003.....	22
CORE SERVICES SERVER.....	22
VAULT SERVER.....	23
NLS	24
FULL-TEXT SEARCH (FTS) SERVER.....	24
WORKFLOW SERVER.....	25
WEB - EDITOR SERVER	25
COMMUNITY WORKSPACE SERVER	25
WEB VIEWER SERVER	26
GATEWAY SERVER	26
FDA COMPLIANCE	26
APPENDIX A: V5R17 LOCATIONS.....	27
SDK SCRIPTS.....	27
SMARTEAM CORE SERVICES.....	27
APPENDIX B: SYSTEM CONFIGURATION MIGRATION TOOL.....	28
LOCATION.....	28
PRE-REQUISITES.....	28
RUNNING THE TOOL	28

CHAPTER 1: OVERVIEW

General

SMARTEAM V5R17 provides a powerful set of services and tools to facilitate the centralized administration of the SMARTEAM environment, in order to reduce costs and to make it easier to configure, manage and maintain the SMARTEAM environment introduced in V5R17 versions.

This document will guide you through the upgrade process; from SMARTEAM V5R14/V5R16 to SMARTEAM V5R17. It is the same upgrade process for V5R14 to V5R17 as V5R16 to V5R17. It is recommended that you read the entire document before proceeding with the hands-on migration.

The target audience is technical personnel, such as application engineers and technical consultants who are conducting the migration of existing customers to SMARTEAM V5R17.

This information herein is intended only for those who are upgrading a previous installation, and is not intended for new customers who are installing SMARTEAM V5R17 on a 'clean' system.

Note: When upgrading to V5R17 from a version previous to V5R14 you must first upgrade to V5R14 or V5R16. For further details refer to SMARTEAM Procedure for Upgrading to V5R14 or SMARTEAM Procedure for Upgrading to V5R16.

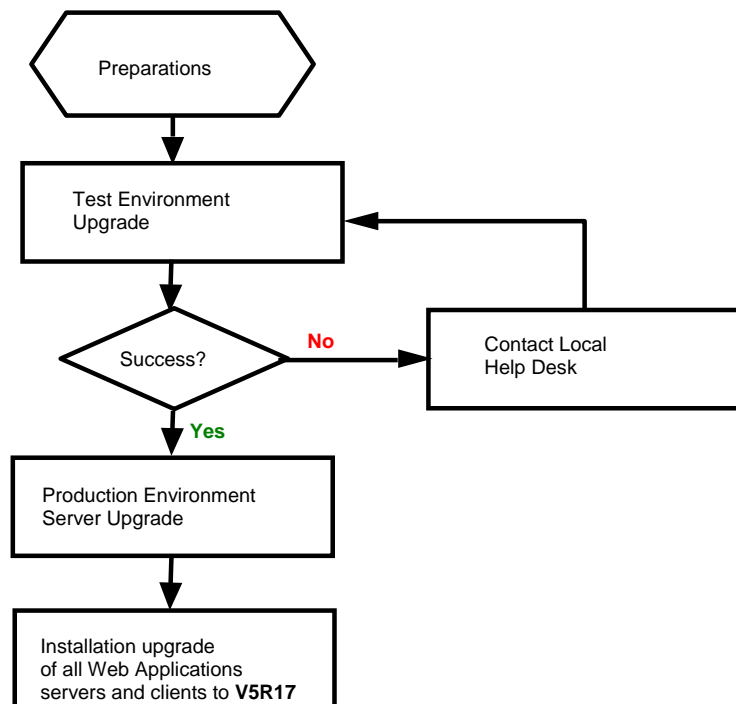
Hardware and Software

Before starting the actual upgrade process, make sure your hardware and software are compatible with SMARTEAM V5R17 requirements. Refer to SMARTEAM V5R17 Hardware and Software Requirements for latest updates and changes, such as:

- Supported Servers and clients Operating Systems.
- Supported CAD versions
- Supported database versions
- Supported LUM versions

CHAPTER 2: MIGRATION PROCESS PRINCIPLES

Process Flowchart



The overall migration process is divided into two main stages:

- Stage 1 - Test Environment upgrade: SmarTeam Corporation highly recommends running the upgrade on the Test environment first, in order to verify SMARTEAM system integrity in an isolated environment, and to avoid possible impact on the functioning of the Production environment. This test phase also allows you to familiarize yourself and gain experience with the step-by-step technical procedures of the upgrade. For further details refer to [Stage 1: Test Environment](#).
- Stage 2 - Production Environment upgrade:
 - ❑ **Phase 1 - Production Server Upgrade.** After the Test Environment upgrade has been completed successfully; proceed with the upgrade of the Production Environment.
 - ❑ **Phase 2 - Web Servers Upgrade.** After the SMARTEAM data has been migrated in production, then proceed with the installation upgrade of all the SMARTEAM Web servers when applicable (i.e. SMARTEAM – Web Editor and/ or SMARTEAM – Community Workspace servers)
 - ❑ **Phase 3: Client Machines Upgrade.** Then proceed with the installation upgrade of all clients' applications, such as SMARTEAM – Editor, CAD Integrations, SMARTEAM - BOM.

For further details refer to

[Stage 2: Production](#) Environment.

Machines Required for Upgrade Process

In order to simplify and regulate the whole process of the Test and Production stages of the migration procedure, it is highly recommend to use dedicated computer(s). They should be in the same location where they can access all the required data and software necessary for a successful migration.

In the test environment the following machines should be used:

1 - SMARTEAM Core Service Server Machine

This machine hosts the SMARTEAM V5R17 Core Services, including:

- Session Management service, which enables a centralized authentication of SMARTEAM users
- System Configuration service, which enables centralized control of all SMARTEAM configuration settings
- Vault Service
- Workflow Service

2 - Client Machine with Administration Tools

This machine is required in order to perform:

- Install SQL Server 2005 Express Edition (pre-requisite for WizSrc and Data Model Designer utility). This installation is available on the SmarTeam SmDemo CD.
- Upgrade the Client Machine with Administration Tools
- Upgrade of the WizSrc database to V5R17
- Run the SMARTEAM Data Model Designer utility

3 - Client Machine

- Upgrade of the SMARTEAM Client Applications

Stage 1: Test Environment

Summary of the Upgrade Process

This section contains a brief summary of the migration activities required in the Test Environment.

Prerequisites:

As every Web Server has SMARTEAM – Editor installed on it, if you are going to upgrade the Web Server, you must reset IIS before the SMARTEAM – Editor Upgrade process.

Upgrade Procedure:

You must complete all the stages in the order listed in this table to successfully upgrade SMARTEAM in the Test Environment to V5R17. This table also includes links to the detailed explanation of each activity, which are provided later in this document.

Upgrade Stage	Machine to Use	Activities Required
Core Services Upgrade	Core Services Server	Install SMARTEAM – Foundation V5R17 with the latest Service Pack including Core Services (Session Management Service and System Configuration Service) Note: You must run the System Configuration Migration tool as part of this procedure in order to a successful upgrade. For further details refer to Appendix B: System Configuration Migration Tool
Client Machine Upgrade	Client Machine	Install SMARTEAM – Editor & additional applications installed at the customer site
WizSrc Upgrade	Client Machine with Administration Tools	Run the SmarTeamWizSrcUpgradeWizard tool (this utility actually extends the customer's current database to support the new features added in V5R17)
Running the Data Model Designer Utility	Client Machine with Administration Tools	Create SMARTEAM Database using the SMARTEAM Data Model Designer

Stage 2: Production Environment

Summary of the Upgrade Process

This section contains a brief summary of the migration activities required in the Production Environment.

Prerequisites:

1. As every Web Server has SMARTEAM – Editor installed on it, if you are going to upgrade the Web Server, you must reset IIS before the SMARTEAM – Editor Upgrade process.
2. Backup the SMARTEAM script directory.
3. Backup the configuration settings files, which is located under SMARTEAM Home Directory/ConfigurationSettings directory.

Upgrade Procedure:

You must complete all the stages in the order listed in this table to successfully upgrade SMARTEAM in the Production Environment to V5R17. This table also includes links to the detailed explanation of each activity, which are provided later in this document.

Upgrade Stage	V5R17 Machine to Use	Activities Required
Phase 1 - Production Server Upgrade		
Core Services Upgrade	Core Services Server	Install SMARTEAM – Foundation V5R17 with the latest Service Pack including Core Services (Session Management Service and System Configuration Service). Note: You must run the System Configuration Migration tool as part of this procedure in order to a successful upgrade. For further details refer to Appendix B: System Configuration Migration Tool
WizSrc Upgrade	Client Machine with Administration Tools	Conduct an upgrade of the WizSrc database copy to V5R17 using the SmarTeamWizSrcUpgradeWizard tool.
Running the Data Model Designer Utility	Client Machine with Administration Tools	Create SMARTEAM Database using the SMARTEAM Data Model Designer
Phase 2 - Web Servers Upgrade		
Upgrade Web Servers	Web Server	Proceed with upgrade of SMARTEAM - Web Editor & Web Navigator Server if relevant and/or proceed with upgrade of SMARTEAM - Community Workspace Server if relevant
Phase 3 - Installation upgrade		
Upgrade all Client Machines	All Client Machines	Proceed with upgrade of all SMARTEAM V5R17 applications, which are installed on the clients in the following order: <ul style="list-style-type: none"> • SMARTEAM – Editor, which includes CAD Integrations, SMARTEAM-BOM and SMARTEAM – FDA

CHAPTER 3: MIGRATION ACTIVITIES

Core Services Upgrade

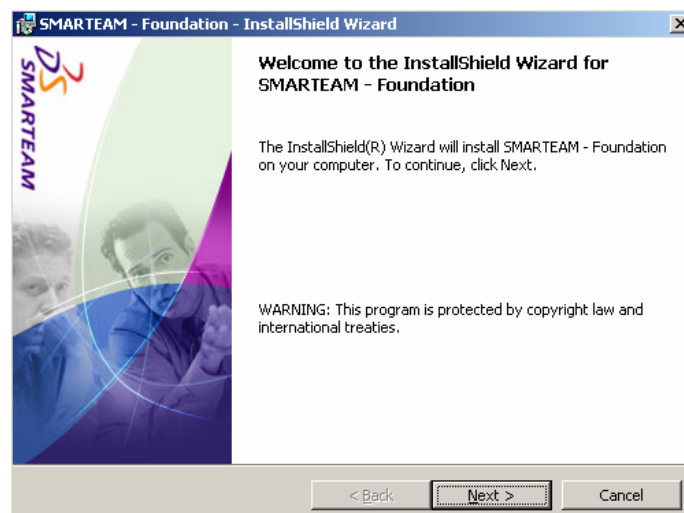
This section needs to be performed for both Test & Production Environments.

In order to upgrade SMARTEAM - Foundation, perform the following steps:

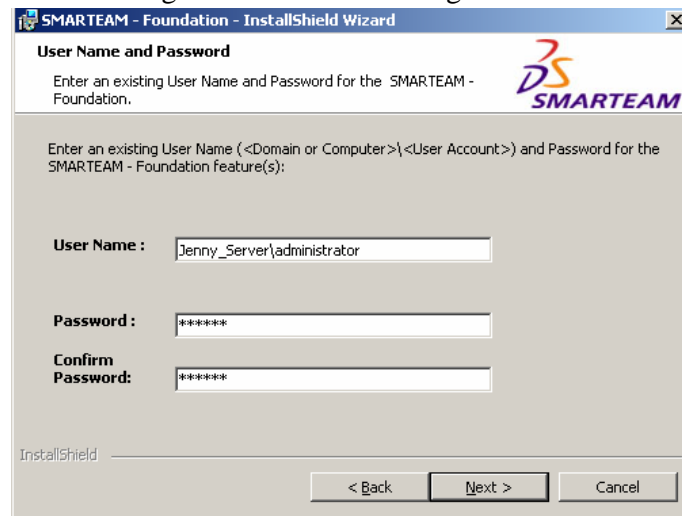
1. Insert SMARTEAM Foundation Installation CD and select **SMARTEAM - Foundation**.



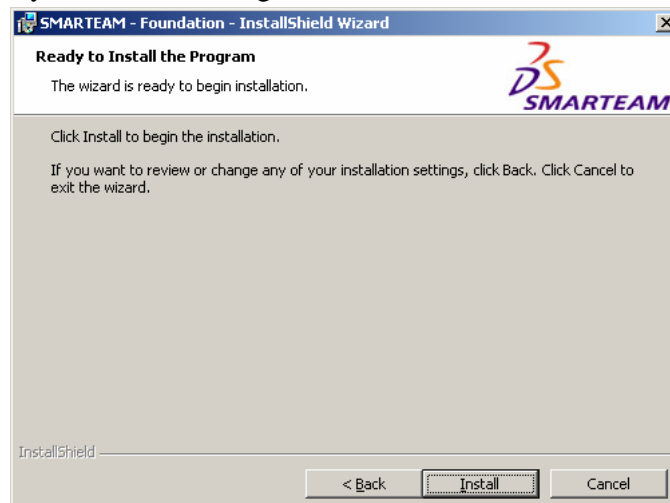
2. In the Welcome window click **Next**.



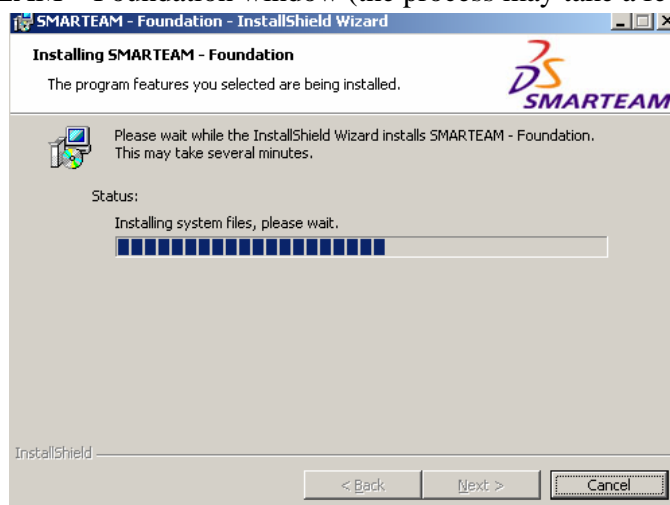
3. In the User Name and Password window enter your User Name and Password. It should be the same login that was used during SMARTEAM Installation. Click **Next**.



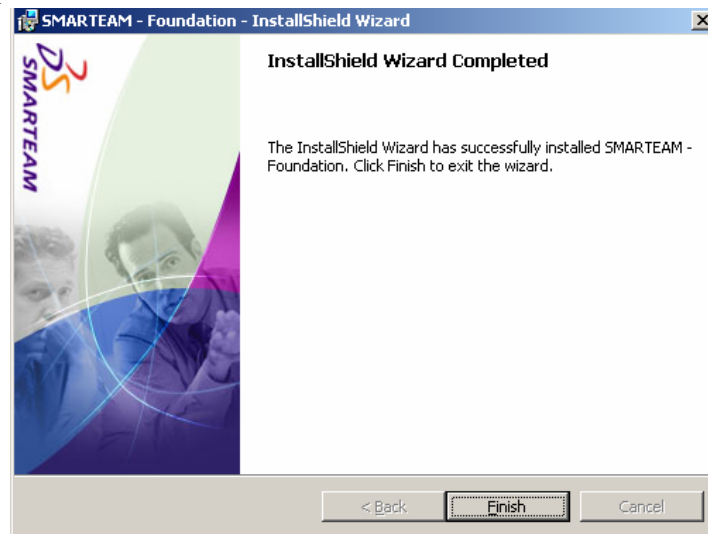
4. In the Ready to Install the Program window click Install.



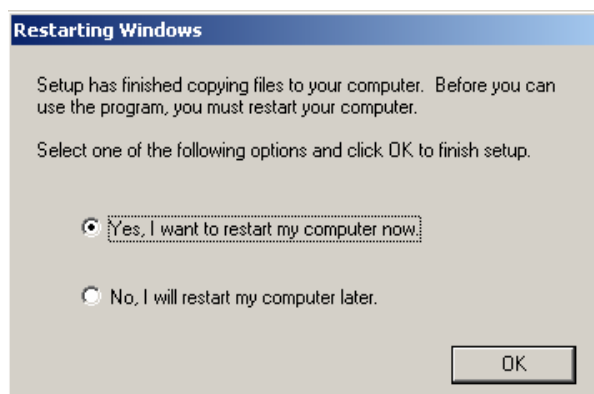
5. During the upgrade process the status of the progress will be shown in the Installing SMARTEAM – Foundation window (the process may take a few minutes).



6. When the upgrade process has finished the InstallShield Wizard Completed window will appear. Click **Finish**.



7. In the Restarting Windows window; select “Yes, I want to restart my computer now” and click **OK**.



8. Your machine will be rebooted. The Core Services that you stopped at the beginning of this process will be started automatically.
9. Make sure that you have a backup of the configuration settings files, which are located under SMARTEAM Home Directory/ConfigurationSettings directory.
10. Go to SMARTEAM Home Directory/upgrade directory and run the *SmarTeam.Std.SystemConfiguration.MigrationTool.exe* in order to migrate all configuration files to V5R17 format. Refer to [Appendix B: System Configuration Migration Tool](#) for further details.
11. The upgrade of the Core Serviced is completed.
12. Reconfigure the Workflow Server. The database connections of the Workflow Server service must be redefined through the Workflow Server Setup tool.
13. Reconfigure the Vault Server. After installing Vault Server component of SMARTEAM – Foundation V5R17, activate the Vault Server Setup application and reconfigure the hostname (when using NetBIOS) or IP Address (when using TCP/IP) of the machine where the Vault Server Service is installed.

14. If you have additional Vault/Workflow Foundation servers, now you can run the upgrade procedure on them. During the upgrade of these servers, uncheck the option to install the Core Services on the same machine with Vault/Workflow, and indicate the dedicated computer on which the Core Services were installed.

Note: If the Core Services are installed on a dedicated computer separately from the Vault and/or Workflow server, the Core Services installation must be run first.

Client Machine Upgrade

This section needs to be performed only for the Test Environment.

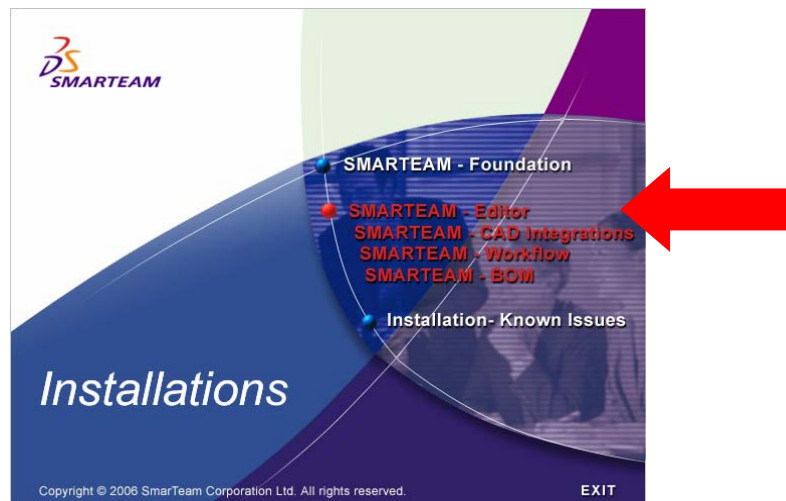
The V5R17 Client Upgrade Machine will be used for the upgrade of:

- WizSrc – to allow previously prepared custom templates to be saved into the upgraded database.
- Running the Data Model Designer Utility – to apply the modifications that were added in V5R17
- Test the client - server connection

In addition, this machine will be used for verification of the SMARTEAM authentication mechanism.

To upgrade the client machine:

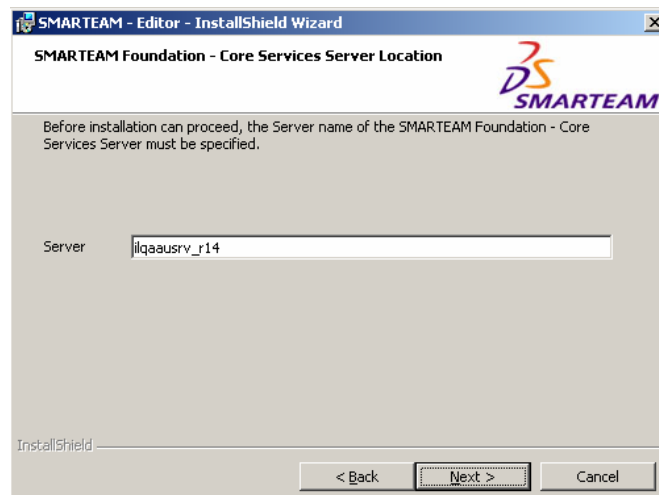
1. Verify that the V5R17 Client Machine has access to the V5R17 Core Services Server.
Note: If you have MSDE 2000, with a SMARTEAM database attached to it, on the Client machine, you need to delete the connection string using the SMARTEAM Database Connection Manager.
2. Verify that the Data Model Designer has been installed on the client machine where the SMARTEAM – Editor upgrade will be performed.
3. Install SQL Server 2005 Express Edition (and pre-requisites), according to “SmarTeam-Editor Installation Guide”.
Note: SQL Server 2005 Express Edition and pre-requisites are automatically installed as part of the V5R17 SmDemo installation process.
4. Insert SMARTEAM – Editor Installation CD and select SMARTEAM Editor.



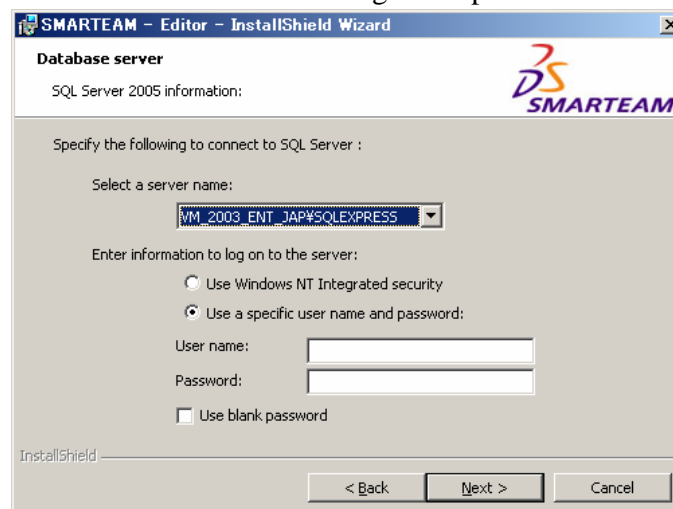
5. In the Welcome Window click **Next** to display the Location window (this may take a few minutes).



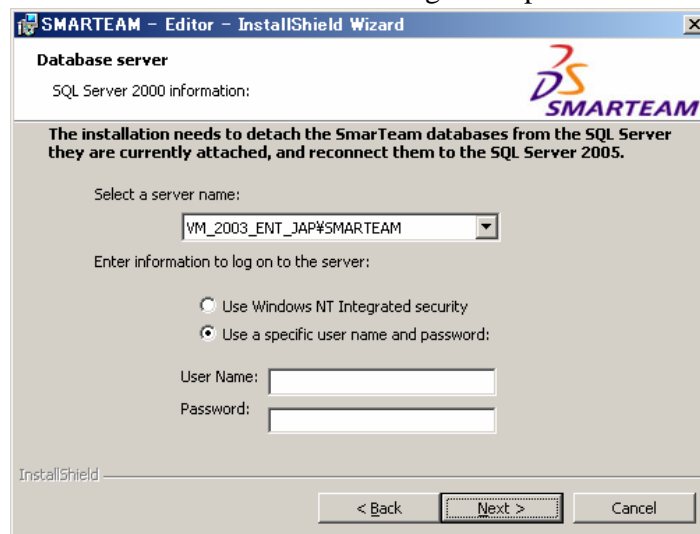
6. In the SMARTEAM – Foundation Core Services Server Location window, enter the name of the test server and click **Next**.



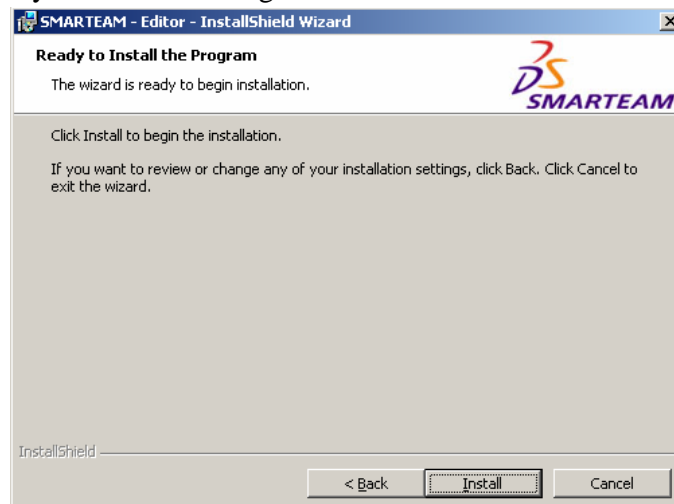
7. In the Database Server window, select the name of SQL 2005 server; to where you want to attach the database to. Enter login and password and then click **Next**.



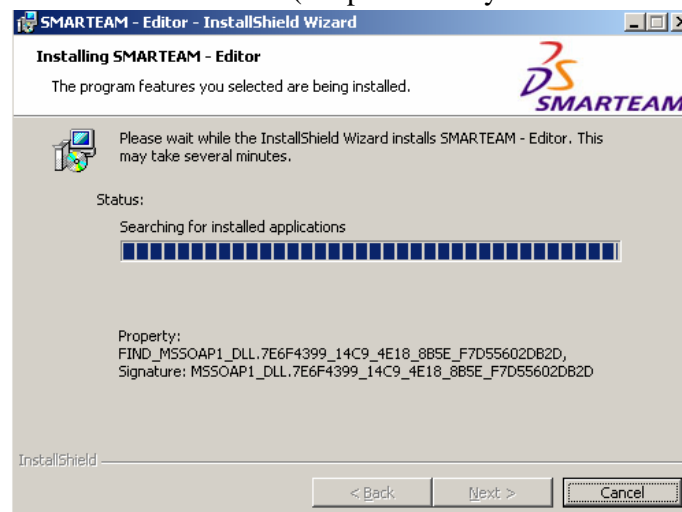
8. In the Database Server window, Select the name of SQL 2000 server; from where you need to detach the database from. Enter login and password and then click **Next**.



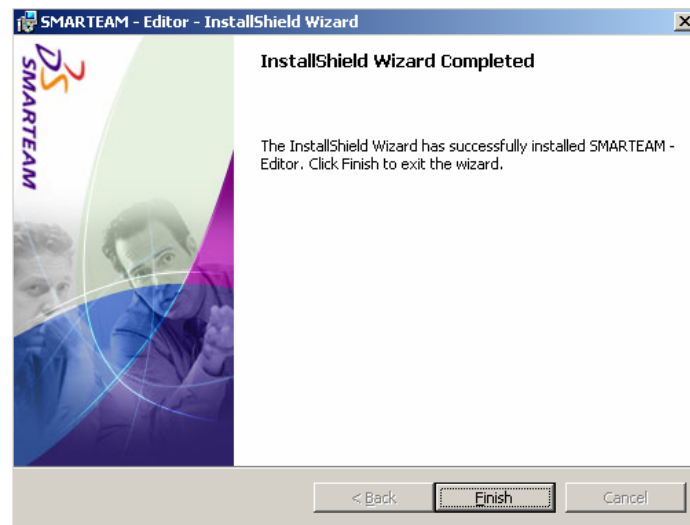
9. In the Ready to Install the Program window click **Install**.



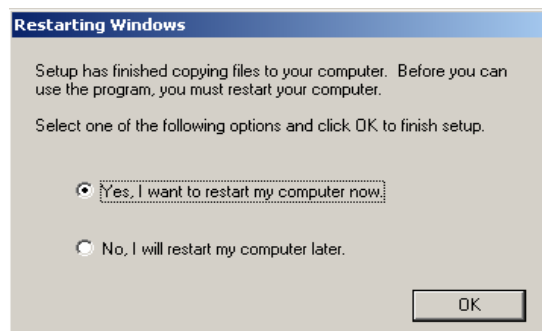
10. During the upgrade process the status of the progress will be shown in the Installing SMARTEAM – Editor window (the process may take a few minutes)



11. When the upgrade process has finished the InstallShield Wizard Completed window will appear. Click **Finish**.



12. In the Restarting Windows window; select “Yes, I want to restart my computer now” and click **OK**.



13. Your machine will be rebooted.
14. Copy all your existing SMARTEAM scripts into the <SMARTEAM home>\Script directory on the V5R17 Client Machine.
15. The client machine upgrade process has been completed.

Note: When upgrading SMARTEAM – Editor, the installation process identifies the existing installed integrations as well as other components, and automatically upgrades them to V5R17.

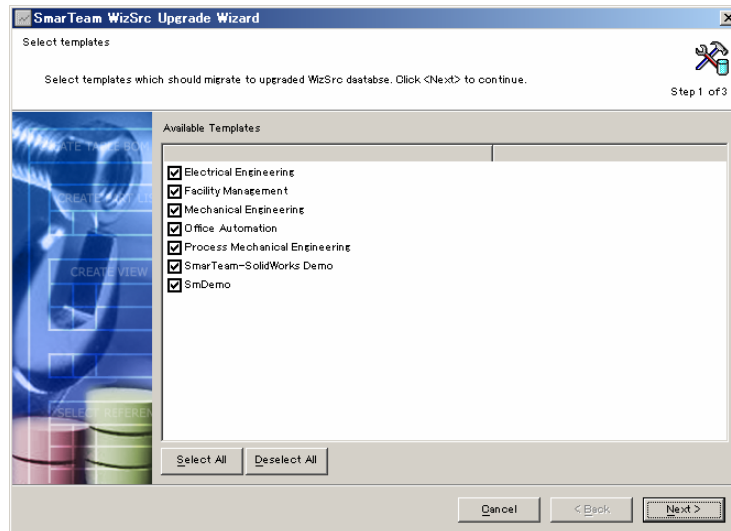
WizSrc Upgrade

This section needs to be performed for both Test & Production Environments.

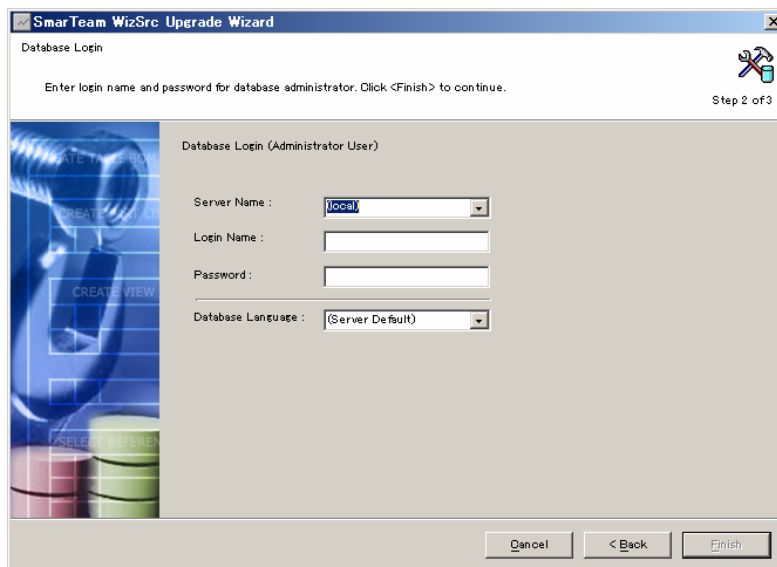
The WizSrc upgrade tool upgrades the user’s WizSrc database located on the SMARTEAM database server. The V5R17 Data Model Designer cannot be used without executing this tool. While upgrading, custom templates can be saved to the upgraded database. It is highly recommended to backup the current WizSrc database before running this tool.

To upgrade WizSrc:

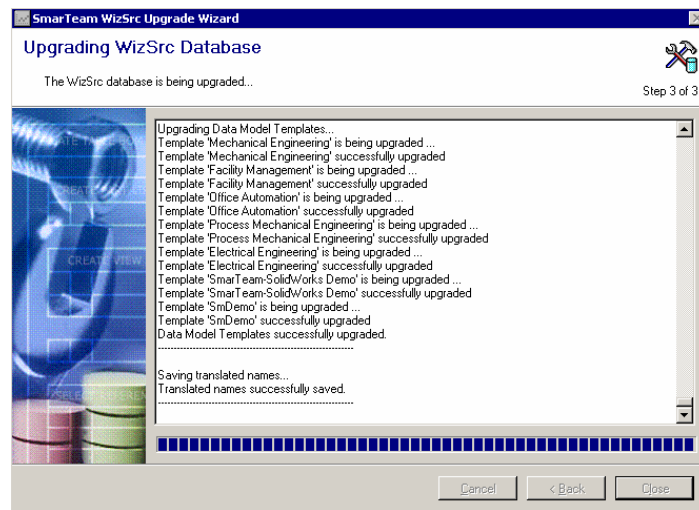
1. Run SmarTeamWizSrcUpgradeWizard.exe, located under the <SMARTEAM>\Upgrade directory.
2. In the Select Templates window select the templates that you want to upgrade for V5R17. Any template that you do not select cannot be used in V5R17. Then click **Next**.



3. In the SQL Server 2005 Express Edition Login window:
 - ❑ Enter the local SQL Server 2005 Express Edition Server Name, User (Login) Name and Password of the administrator of this server.
 - ❑ Click **Finish** to start the WizSrc upgrade process.



- The Summary window is generated to indicate that the WizSrc upgrade process is completed.



Running the Data Model Designer Utility

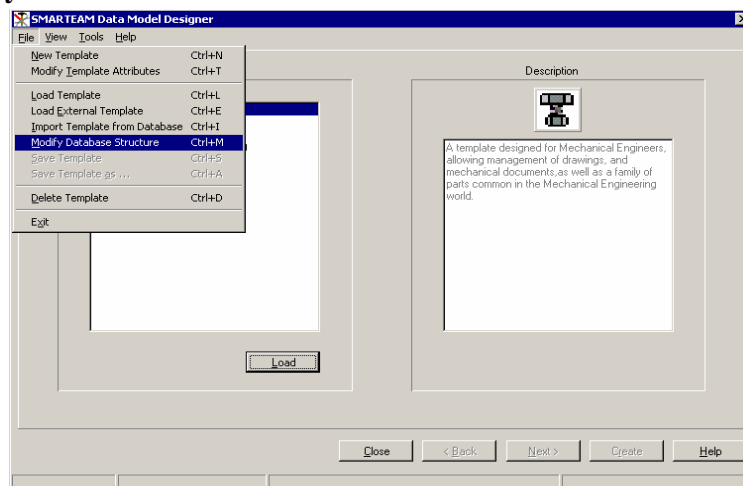
This section needs to be performed for both Test & Production Environments.

When you run the SMARTEAM Data Model Designer utility you will enable the new V5R17 additional functionalities.

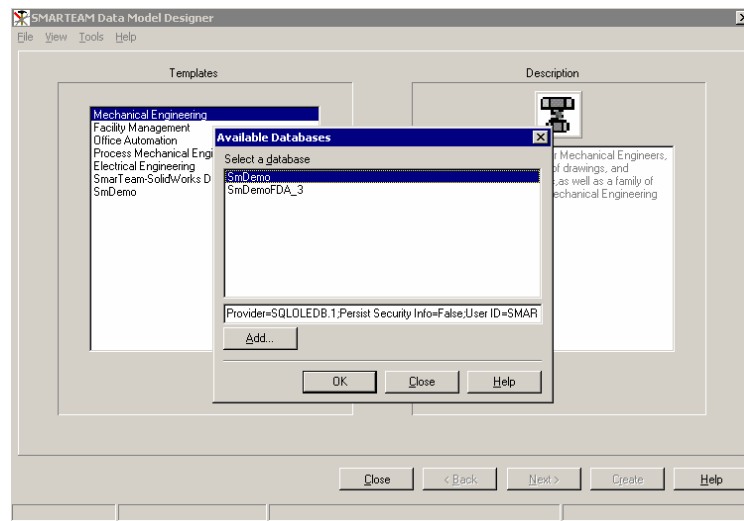
Note: Before running the SMARTEAM Data Model Designer Utility backup your database.

To run the SMARTEAM Data Model Designer utility perform the following steps:

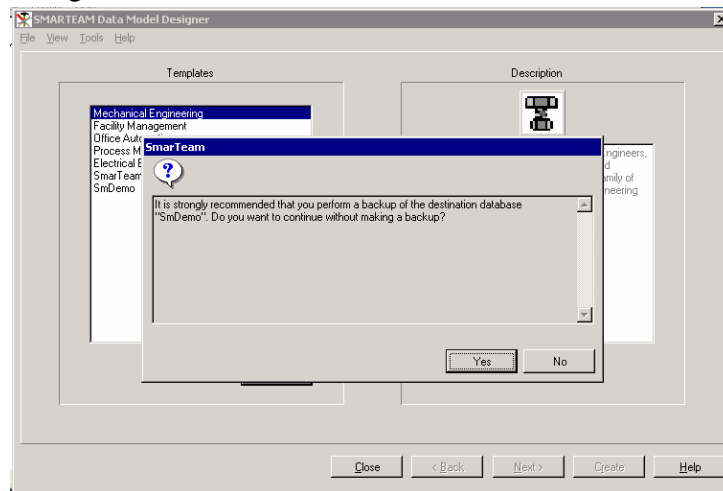
- Open the SMARTEAM Data Model Designer utility, select **File** menu and then **Modify Database Structure**.



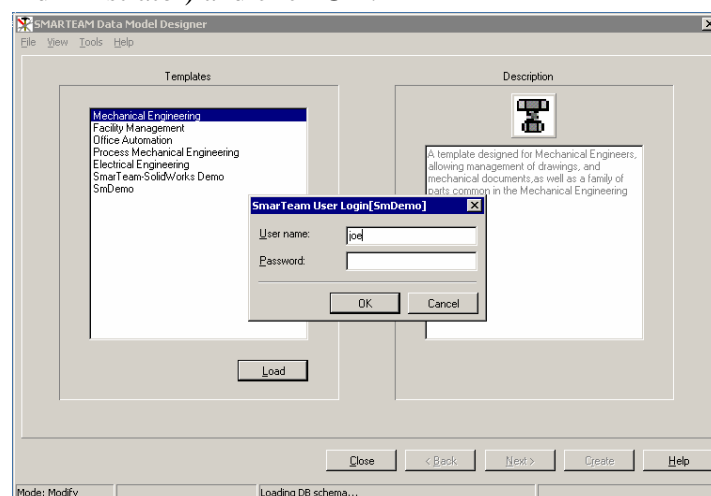
2. In the Available Databases window select the Database that needs to be upgraded and click **OK**.



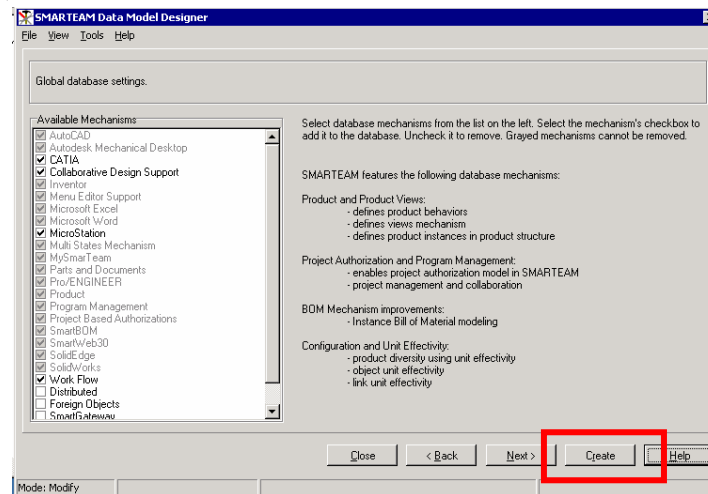
3. In the message window click **Yes**.



4. It will take few moments until the login window will appear. Enter your login (which must be Administrator) and click **OK**.



5. In the SMARTEAM Data Model Designer window wait until the database structure has been downloaded (may take a few minutes) and then click **Create**. This operation will automatically add all modifications required for V5R17 (this may also take a few minutes).



Upgrade Web Servers

As every Web Server has SMARTEAM – Editor installed on it, before starting any upgrade procedure on the Web Server, you must reset IIS before the SMARTEAM – Editor Upgrade process.

Before upgrading the Web Applications verify that your Hardware & Software meet the requirements. Refer to the V5R17 Hardware and Software Requirements Guide for further details. In addition, you must perform the SMARTEAM – Editor upgrade process on the Web Server before you start the Web Application upgrade process.

SMARTEAM – Web Editor & SMARTEAM – Navigator

SMARTEAM – Web Navigator will be automatically upgraded during the SMARTEAM – Web Editor upgrade process.

To upgrade SMARTEAM – Web Editor:

1. Run the installation process as is described in the SMARTEAM – Web Editor Installation Guide (the prerequisites and post installation are not required unless specified otherwise in this document). The following steps will not be available during the upgrade process:
 - ☐ SMARTEAM System Requirements Window
 - ☐ SMARTEAM Web Viewer Window
 - ☐ Web Server Selection
2. At the end of the SMARTEAM – Web Editor Installation process, activate the SMARTEAM – Web Editor Data Model Wizard.

Note: If you are using Multi-site, refer to the Upgrading Multi-site Software section in the SMARTEAM – Multi-site Administration Guide, before updating the SMARTEAM database via SMARTEAM – Web Editor Data Model Wizard.

3. Update SMARTEAM Database via SMARTEAM – Web Editor Data Model Wizard. For further information refer to the SMARTEAM – Web Editor Installation Guide.
4. If you have customized the Style sheets files (.CSS), which are used to store some user interface settings of previous SMARTEAM – Web Editor Versions, you need to redefine them in V5R17.
5. If you configured Windows Authentication for SMARTEAM – Web Editor in a previous SmarTeam release, you need to reconfigure it when upgrading to V5R17. For further details on how to perform this task, refer to Define Microsoft® Windows Authentication Protocol Mode section in the SMARTEAM – Web Editor Installation Guide.

Note: After upgrading to V5R17, verify that the `smarteam.std.dynamicTypeMappings.config.xml` file does not exist in [SMARTEAM HOME]\ConfigurationSettings\Data\Domain. If it exists you must delete it.

SMARTEAM – Community Workspace

In order to upgrade the SMARTEAM – Community Workspace, insert the SMARTEAM Web Applications CD. Run the SMARTEAM – Community Workspace installation process as described in the SMARTEAM – Community Workspace Installation Guide (prerequisites and post installation are not required).

Once you have completed the SMARTEAM – Community Workspace Installation process, run the Synchronize Assembly Helper utility installation process, which is available on the same CD.

Upgrade all Client Machines

This section needs to be performed only for the Production Environment.

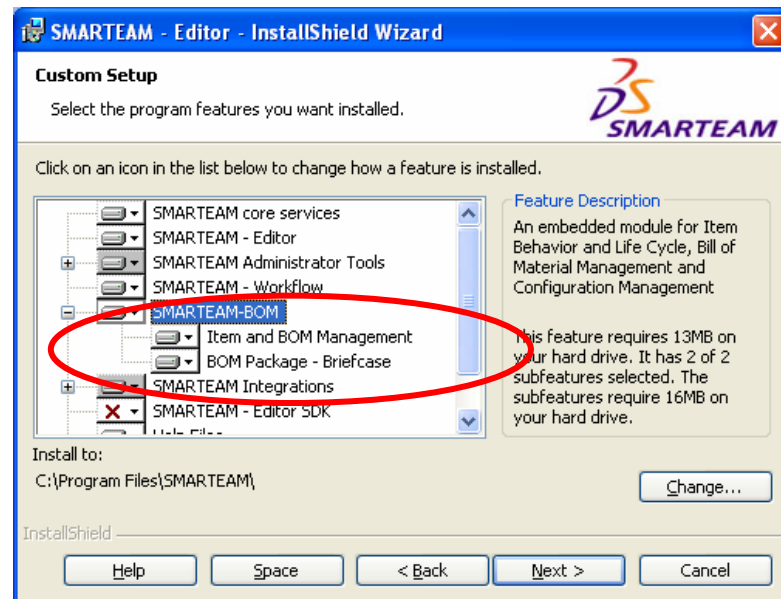
Products can be upgraded directly, once the minimal version requirements are met, regardless of any Service Packs and/or hot fixes that were subsequently installed.

SMARTEAM – Item and BOM

In V5R17 the installation process of SMARTEAM – Item and BOM (previously known as SMARTEAM – BOM) is included as part of the SMARTEAM – Editor Installation process in the Custom Setup screen. SMARTEAM – Item and BOM is activated according to licenses.

If you select BOM – Package Briefcase in the SMARTEAM – Editor Installation process, after the upgrade process you must also run the Briefcase Administration Wizard. This is available from the SmarTeam Start Menu.

If you select Item and BOM Management in the SMARTEAM – Editor Installation process, when upgrading SMARTEAM – Editor to V5R17, you will automatically upgrade SMARTEAM – BOM to SMARTEAM – Item and BOM V5R17. All previous versions of SMARTEAM – BOM will be automatically uninstalled.



If the Item Behavior (may be called Part Behavior) mechanism already exists in the SMARTEAM database, you must perform this upgrade process. If it does not exist you need to add Item Behavior to the relevant super class in your database and then perform this upgrade process.

SMARTEAM – Item and BOM V5R17 has an enhanced data model, therefore it is necessary to perform database upgrade for SMARTEAM releases prior V5R17. It requires running the SMARTEAM Data Model Designer as a mandatory step of the upgrade process.

When running the SMARTEAM Data Model Designer in V5R17 it automatically upgrades the SMARTEAM database without an impact on customer's data. All SMARTEAM - Item, BOM & Configuration Management functionality features will be immediately available for operation on an existing customer's data.

Note: Customized SMARTEAM environments, where customization was done in accordance with SMARTEAM implementation methodology, does not require an additional upgrade process or the migration of customer's data. However, it must be reviewed and analyzed in order to evaluate impact of the new functionality.

SMARTEAM – FDA Compliance

Before beginning the SMARTEAM – FDA Compliance upgrade process, make sure that all prerequisite products are already upgraded to V5R17. For example, SMARTEAM – FDA Compliance V5R17 requires SMARTEAM – Editor, SMARTEAM – Workflow and SMARTEAM – BOM, all in this same version.

In order to upgrade SMARTEAM – FDA Compliance, insert the SMARTEAM – FDA Compliance CD. Run the SMARTEAM – FDA Compliance installation process as described in the SMARTEAM – FDA Compliance Installation Guide (prerequisites and post installation are not required).

SMARTEAM – Multi-Site

For the SMARTEAM – Multi-site upgrade process refer to the Upgrading Multi-site Software section in the SMARTEAM – Multi-site Administration Guide.

CHAPTER 4: STANDALONE UPGRADE PROCESS

This Upgrade Process is only suitable for Standalone (demonstration environment), when a single, Standalone Upgrade Machine is used for the entire upgrade process.

If both SMARTEAM – Foundation and SMARTEAM – Editor are installed on one machine, you must upgrade SMARTEAM – Foundation services (Vault / Workflow services) first and then upgrade SMARTEAM – Editor (includes SMARTEAM Integrations). When upgrading SMARTEAM – Editor, the installation process identifies the existing installed integrations as well as other components, and automatically upgrades them to V5R17.

If you originally installed SMARTEAM – Editor in Standalone mode on each client machine, the V5R17 installation will upgrade to the same mode, which includes the V5R17 Core Services. Therefore, in production environment, it is recommended to uninstall first the original Editor installation and then to proceed with V5R17 installation on each ‘clean’ machine.

This table contains a brief summary of the migration activities required in the Demonstration Environment. It also includes links to the detailed explanation of each activity, which are provided later in this document.

You must complete all the stages in the order listed in this table to successfully upgrade to SMARTEAM V5R17 on a Standalone Machine.

Upgrade Stage	Activities Required
Core Services Upgrade	Install SMARTEAM – Editor V5R17 in Standalone mode including Core Services (Session Management Service and System Configuration Service), and all SMARTEAM Administrator tools. Install the latest Service Pack of SMARTEAM – Editor V5R17. Run the “System Configuration Migration tool” to migrate all configuration files to R17 format.
WizSrc Upgrade	Conduct an upgrade of the WizSrc database copy to V5R17 using the SmarTeamWizSrcUpgradeWizard tool.
Running the Data Model Designer Utility	Perform “Create” on this database using SMARTEAM Data Model designer as described above.

CHAPTER 5: SERVERS MIGRATION TO WINDOWS 2003

All servers must be installed on Windows 2003 for SMARTEAM - V5R17.

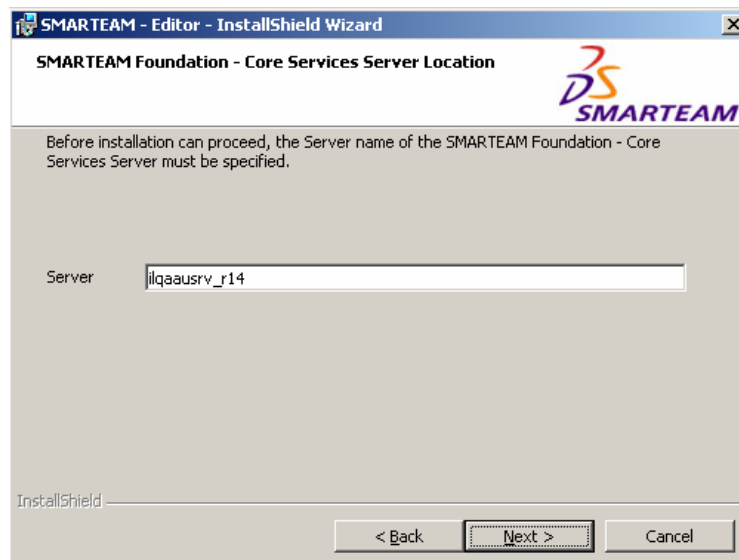
The procedures described in this chapter are provided to assist with the migration of servers to Windows 2003 during the upgrade process to V5R17.

Note: SMARTEAM - V5R16 was the last release, which supported Windows 2000 as a server platform.

Core Services Server

To migrate an existing Core Services Server installed on Windows 2000 to a new server installed on Windows 2003, perform the following procedure:

1. Disconnect the old Core Services server from the Network.
2. Install SMARTEAM Foundation V5R17, making sure that you install the Core Services Server V5R17 on a clean Windows 2003 Server machine.
3. In the existing Core Services Server machine (on Windows 2000), go to <SmarTeam Home>\ConfigurationSettings\Data directory and zip all directories (except "Default") that exist in this directory.
4. Copy the Zipped file to the new Core Services Server machine (on Windows 2003) to the <SmarTeam Home>\Configuration\Data directory and then unzip this file.
5. Copy the "System Configuration Migration Tool" from SmarTeam – Editor CD, located in the *Kits\SmarTeam.Std.SystemConfiguration.MigrationTool.exe*; to the new Core Services Server machine. Run this utility in the new location in order to migrate the old configuration files into the configuration structure of V5R17. For further details refer to [Appendix B: System Configuration Migration Tool](#).
6. Give all SMARTEAM components the new location of the Core Services Server. This can be done in either of the following ways:
 - Change the Network Identification (DNS name, Hostname and IP address) of the new Core Services Server machine (on Windows 2003) to the Network Identification of the old Core Services Server machine (on Windows 2000).
Note: You must first change the Network Identification of the old Core Services Server machine in order to avoid collision in the network
 - During upgrade of SMARTEAM - Editor to V5R17, change the location of the SMARTEAM - Foundation Core Services Server, in the SMARTEAM – Editor Install Wizard screen (as shown in the following diagram):



7. Update all other SMARTEAM server machines with the new location of Core Services Server (Vault, Workflow, and FTS).

Vault Server

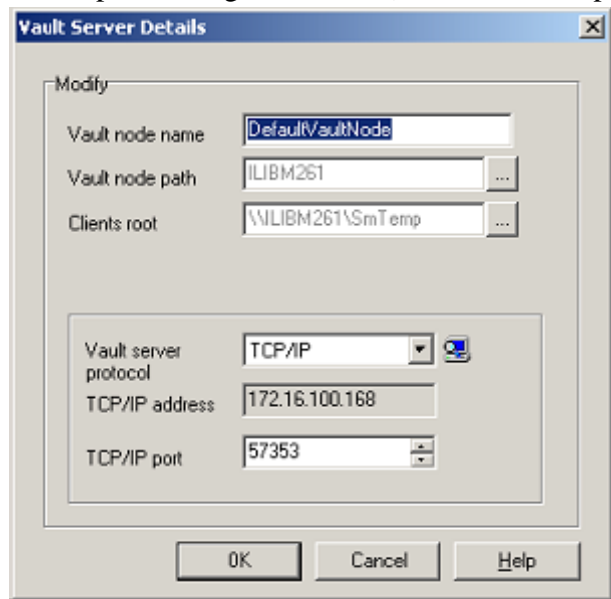
To migrate an existing Core Services Server installed on Windows 2000 to a new server installed on Windows 2003, perform the following procedure:

1. Disconnect the old Core Services server from the Network.
2. Install SMARTEAM Foundation V5R17, making sure that you install the Vault Server V5R17 on a clean Windows 2003 Server machine.
3. Upgrade all SMARTEAM clients to V5R17.
4. Run the Data Model Designer from a client machine with Administration tool on the database.
5. Copy vault directories (SmTemp and SmVaults) from the existing Vault Server to the new V5R17 Vault Server.
6. Change Network Identification (DNS name, Hostname and IP address) of new Vault Server machine (on Windows 2003) to the Network Identification of the old Vault Server machine (on Windows 2000).
Note: You must first change the Network Identification of the old Core Services Server machine in order to avoid collision in the network.

Final Tuning of configuration:

7. Copying of the Vault directories (smTemp and smVault) erases all permissions made in the old Vault Server machine. Therefore, you must add the shared authorization to the following directories:
 - Add “everyone” group to be authorized on SmTemp directory
 - Add “smVaultAdmins” and “smVaultUsers” groups to be authorized on SmVault Subdirectories.

8. Run “vault server setup” from a SMARTEAM client with Administration tools. This is done by directing SmTemp and SmVault to their existing path (Verify IP address should be the same as the server machine. If not, change protocol from “TCP/IP” to “Named Pipes” and again to “TCP/IP” in order to update the IP Address).



9. Run the Database Connection Manager from new Vault Server (on Windows 2003) and check “available for use in SMARTEAM vault”.

NLS

To migrate the existing customized NLS data to the new server, copy the custom directory from the NLS folder to the NLS folder in the new server.

Full-Text Search (FTS) Server

To migrate an existing Full Text Search installed on Windows 2000 to a new server installed on Windows 2003, perform the following procedure:

1. Install SMARTEAM Foundation V5R17, making sure that you install the Full Text Search on a clean Windows 2003 Server machine.
2. Create indexing according to the guidelines in the SMARTEAM-Editor Administrator Guide (Appendix C – Full Text Search Server, Defining a new Catalog and new Index for files directories).
3. If the new Full Text Search Server machine has a different Network Identification, update the following related system configuration keys in the System Configuration Editor:
 - SmartFTS.IndexingServer in smarteam.std.legacyPreferences
 - SmartFTS.MachineName in smarteam.std.legacyPreferences
 - SmartFTS.Catalog in smarteam.std.legacyPreferences

Workflow Server

To migrate an existing Workflow Server installed on Windows 2000 to a new server installed on Windows 2003 server, perform the following procedure:

1. Install SMARTEAM-Foundation V5R17, making sure that you install Workflow, on a clean Windows 2003 Server machine.
2. After installation, run the workflow server setup utility to configure the Workflow Server in the SMARTEAM environment.
3. Remove the old Workflow Server services in order for all new workflow processes to work with the new Workflow Server.

Web - Editor Server

To migrate an existing SMARTEAM – Web Editor Server installed on Windows 2000 to a new SMARTEAM – Web Editor Server installed on Windows 2003, perform the following procedure:

1. Install SMARTEAM – Web Editor V5R17 on a clean Windows 2003 machine.
2. Copy all customized files that were updated to the new server, e.g. Scripts.
3. Change the following System Configuration key, which relate to the SMARTEAM Web – Editor Server location, to the new Network Identification of the new server:
 - WorkflowAlerts.SmartWebServer in smarteam.std.legacyPreferences
4. You need to verify that the following System Configuration keys are pointing to the new server, if you changed the values of these System Configuration Keys in a previous release:
 - uploadDirectory in smarteam.std.filestoragemanager
 - downloadDirectory in smarteam.std.filestoragemanager
 - UploadURL in smarteam.std.filestoragemanager
 - Download URL in smarteam.std.filestoragemanager

Community Workspace Server

To migrate an existing SMARTEAM – Community Workspace Server installed on Windows 2000 to a new SMARTEAM – Community Workspace Server installed on Windows 2003, perform the following procedure:

1. Install SMARTEAM – Community Workspace V5R17 on a clean Windows 2003 machine.
2. Copy all customized files that were updated to the new server e.g. Scripts.
3. Set the URL/Server Name of the new SMARTEAM – Community Workspace Server to point to the new location of the Community Workspace Server. This is performed as described in the “Setting the URL/Server Name for SMARTEAM – Community Workspace” section of in the SMARTEAM – Community Workspace Installation Guide, Post Installation Chapter.

Web Viewer Server

To migrate an existing SMARTEAM – Web Viewer Server installed on Windows 2000 to a new SMARTEAM – Web Viewer Server installed on Windows 2003, perform the following procedure:

1. Make sure all Markup files are copied to the Vault before starting to upgrade to V5R17.
2. Install SMARTEAM – Web Viewer V5R17 on a clean Windows 2003 machine.
3. Change the following System Configuration keys, which relate to the SMARTEAM – Web Viewer Server location, to the new Network Identification of the new server
 - TemporaryViewerPath in smarteam.std.viewers
 - TemporaryViewerURL in smarteam.std.viewers
 - JVueViewerDirectory in smarteam.std.viewers
 - JVueURL in smarteam.std.viewers
 - JVueServer in smarteam.std.viewers

Gateway Server

To migrate an existing SMARTEAM – Gateway Server installed on Windows 2000 to a new SMARTEAM – Gateway Server installed on Windows 2003, install SMARTEAM – Gateway V5R17 on a clean Windows 2003 Server machine.

FDA Compliance

To migrate an existing FDA Job Server installed on Windows 2000 to a new FDA Job Server installed on Windows 2003, install FDA Job Server V5R17 on a clean Windows 2003 Server machine.

APPENDIX A: V5R17 LOCATIONS

SDK Scripts

This section is only relevant if you use SDK Scripts.

When you install SMARTEAM – Editor without SmDemo, after upgrading to V5R17, all scripts are moved to <SmarTeam>\SDK. Their previous location was <SmarTeam>\Scripts.

If a script provided by SmarTeam is needed for customer's use, it must be copied to <SmarTeam>\Scripts directory.

Examples of such scripts:

- ❑ UpdateDirtyFlag.bs
- ❑ SetDesc.BS

SMARTEAM Core Services

Prior to V5R17, the SMARTEAM Core Services server location was written in the machine.config file, under .NET Framework configuration in Windows machines.

In V5R17, the location of the Core Services server will be written in the configuration file SmarTeam.Std.LocalConfiguration.dll.config under <SmarTeam>\Bin directory.

If you are using any customized development that is based on getting the Core Services location from machine.config file, you must update the location accordingly.

APPENDIX B: SYSTEM CONFIGURATION MIGRATION TOOL

The System Configuration Migration tool must be used when upgrading to V5R17. It will restructure all existing configuration files to the new structure in V5R17.

Note: When upgrading from a service pack which is not compatible to R17 e.g. R16 SP8 (released after V5R17), the procedure will fail. In this case, you must run this migration tool at the end of upgrading to the relevant service pack and not after GA.

Location

After upgrading the SmarTeam Core Services Server to V5R17, the tool “SmarTeam.Std.SystemConfiguration.MigrationTool.exe” will be located on the upgrade directory. The tool is also located on the SMARTEAM – Editor Installation CD under Kits.

Pre-requisites

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

1. Close all open folders in SmarTeam Home Directory/ConfigurationSettings (Folder windows, etc).
2. Do not run this tool directly from the CD. Copy the tool to a location on the local machine.
3. Stop SmarTeam configuration services before running the utility.
4. Open a Command line window (Start->Run->cmd) and run the tool from it.

Running the Tool

Usage

SmarTeam.Std.SystemConfiguration.MigrationTool.exe /S:source [/B:backup] [/L:logfile]

- **Source:** full path to the ConfigurationSettings folder under SmarTeam Home Directory
- **Backup:** optional path for backup of existing configuration files; if not specified, then backup will be created in %TEMP% folder
- **Logfile:** optional log file path; if not specified, then log file will be created in execution folder

Example: SmarTeam.Std.SystemConfiguration.MigrationTool.exe /S:"C:\Program Files\SmarTeam\ConfigurationSettings"

Note: Do not use backslash at the end of the source and backup parameters.

Successful

If the utility is successful, the message “Migration finished successfully” will be the last message displayed in the console and log.

Unsuccessful

If the utility was not successful an error message will be displayed in the console and also in the log.

Example of Error Message: [Migration Error] and a detailed description of the error

In this case, the utility automatically restores the Configuration Settings folder from backup and the message “Restore from backup procedure finished” will be the last message displayed in the console and log.