



## **ENOVIA SmarTeam**

# **SmarTeam Development Suite Installation and Deployment Guide**

---

© Dassault Systèmes, 2004, 2008. All rights reserved.

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

**PROPRIETARY RIGHTS NOTICE:** This documentation is the property of Dassault Systèmes. This documentation shall be treated as confidential information and may only be used by employees or contractors of the Customer in accordance with the terms of the End-User License Agreement accepted by Customer.

Any use of the Licensed Program contained in this media or accompanying it, is subject to the terms of the End User License Agreement accepted by Customer. The Licensed Program is protected by international copyright laws and international treaties. Unauthorized use, reproduction and/or distribution of any of the Licensed Program, 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. Company names and product names mentioned herein are the property of their respective owners and certain portions of the Licensed Program contain elements subject to copyright owned by these entities. See the Documentation CD provided with the Licensed Program for details and/or additional terms and conditions relating to these entities.

Part Number: DVS-A1-190008

# Table of Contents

<b>Chapter 1: Introduction</b>	<b>1</b>
Overview	1
SmarTeam I-Platform and IXF SDK Overview	1
SmarTeam Visual Components SDK Overview	1
Software Location	2
Related Documentation	3
Internet Site	3
<b>Chapter 2: -Installation Checklist</b>	<b>4</b>
Checklist: SmarTeam i-Platform SDK	4
Checklist: SmartiXF SDK	5
Checklist: Visual Components SDK	5
<b>Chapter 3: System Requirements</b>	<b>6</b>
Hardware and Software Requirements	6
System Requirements	6
Order of Installation	6
Prerequisites	6
Installing Microsoft Internet Information Services (IIS)	6
<b>Chapter 4: Installation Process</b>	<b>8</b>
Installing SmarTeam I-Platform SDK	8
Running the Installation	9
Installing SmartIXF SDK	16
Installing Visual Components SDK	19
<b>Chapter 5: Post Installation</b>	<b>23</b>
Security Issues	23
Deploying on Secure Channels	23
Network Deployment Configurations	23
Using SSL	24
Using a VPN	24
Adding SmarTeam Visual Components to the Visual Studio Toolbox	25

<b>Chapter 6: Troubleshooting</b>	<b>30</b>
Modify/ Repair/ Remove	30
Modify	30
Repair	30
Remove	31
Known Issues	31
Frequently Asked Questions	31
<b>Chapter 7: Silent Installation</b>	<b>32</b>
Overview	32
SmarTeam – SDK (I - Platform + IXF)	33
I - Platform	33
Command-Line Operation	33
Command-Line Format	33
Command-Line Properties	33
Values for ADDLOCAL Parameter	35
IXF	36
Command-Line Operation	36
Command-Line Format	36
Command-Line Properties	37
Values for ADDLOCAL Parameter	38
SmarTeam SDK (Visual Components)	39
Command-Line Operation	39
Command-Line Format	39
Command-Line Properties	40
Values for ADDLOCAL Parameter	41

# Chapter 1: Introduction

## Overview

This guide outlines the following software procedures needed to successfully install Microsoft Internet Information Services (IIS), SmarTeam i-Platform SDK , SmartiXF SDK and SmarTeam Visual Components.

**Notes:** All the documentation mentioned in this document, unless specified otherwise, is available on the SmarTeam Documentation CD.

## SmarTeam I-Platform and IXF SDK Overview

The SmarTeam I-Platform SDK provides client applications with the ability to access the SmarTeam functionality provided by the SmarTeam I-Platform. The SmarTeam functionality is accessed through short scripts (referred to in this guide as *embedded scripts*) that are embedded in requests sent by the client application to the SmarTeam I-Platform and executed on the server.

The primary function of this section is to describe how to deploy the following three components in various deployment scenarios while taking into account sensitive [Security Issues](#).

The three major components provided by the SDK are:

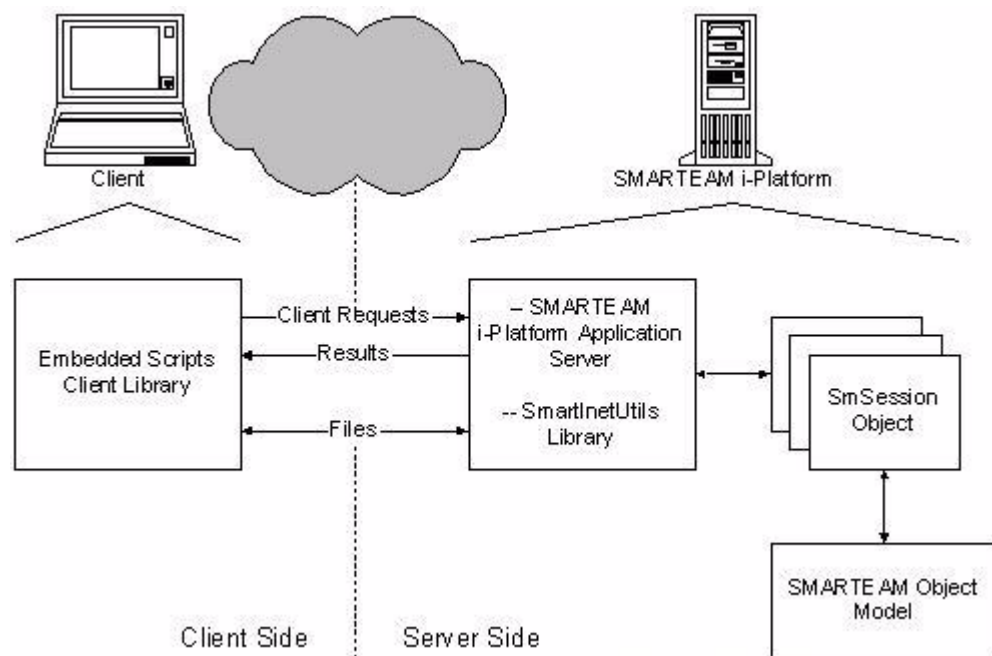
- SmarTeam I-Platform Application Server – a server application providing SmarTeam services via a variety of protocols and communication methods. This package includes the Embedded-Scripts Engine – a Web Service for executing scripts sent by the client and returning results to the client.
- Embedded-Scripts Client Library – a Java™-based client side library for generating, encoding and sending client requests to the server and receiving results. This library contains the Embedded-Scripts Connection Package and the Record List Package.
- SmartInetUtils Library – a server-side library providing support for operations related to Internet protocols, such as file uploading and downloading.

## SmarTeam Visual Components SDK Overview

SmarTeam Visual Components SDK provides you with the building blocks to customize the way that SmarTeam components are displayed. The customization of Visual Components is usually performed by an Administrator/Implementer who writes codes and needs to work with customization of the application.

## Network Architecture

The network architecture of the SmarTeam i-Platform SDK components is illustrated below:



The client sends requests of the following types to the server:

- Connection request – including password and other login information
- Script execution requests – including commands for activating the SmarTeam API.
- Disconnect request

The client request information is transmitted using the SOAP protocol, using XML encoding over HTTP in clear text format.

## Software Location

The installation procedures described are for the SmarTeam i-Platform SDK, SmartIXLF SDK and SmarTeam Visual Components software, which is available on the SmarTeam CD-ROM.

## Related Documentation

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

Document	Remarks
SmarTeam i-Platform Programmers Guide	This document provides information necessary for configuring the SmarTeam – Gateway software
Hardware and Software Requirements	Details the hardware and software required for a successful installation
SmartIXF Library Programmers Guide	This document provides information on generating and processing iXF schema and archive files.
IXF Reference Guide	This iXF online help details: <ul style="list-style-type: none"> <li>• How to access iXF functions</li> <li>• How to customize iXF objects</li> <li>• How to customize the iXF parameters</li> </ul>
SmarTeam Object Model Programmers Guide	This document provides programmatic access to the functionality of the SmarTeam family of products.
STCom API Reference Guide	This online help details: <ul style="list-style-type: none"> <li>• How to access functions</li> <li>• How to customize objects</li> <li>• How to customize the parameters</li> </ul>
Customizing Using Server-side Hooks for Server-based Applications	This document describes how to use SmarTeam API in Server Mode, in particular it describes interface mechanisms provided by SmarTeam to allow you to use the SmarTeam hooks in Server Mode.
Customizing Using Client-side Hooks for Client-based Applications	This document describes how to use procedural script interfaces to add functionality to SmarTeam.
SmarTeam – BOM Programmer's Guide	This guide provides the necessary information for maintaining an assembly BOM product, referenced information and BOM changes.
SmarTeam Visual Components Customization Guide	This guide provides you with the building blocks to customize the way that SmarTeam components are displayed.

## 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://support.smarteam.com/>.

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

## Chapter 2: Installation Checklist

Choose one of the following types of installations for DVS Installation and Deployment:

- **SmarTeam i-Platform SDK:** Installs SmarTeam i-Platform SDK on a computer
- **SmartiXF SDK:** Installs SmartiXF SDK on a computer
- **SmarTeam Visual Components SDK:** Installs Visual Components SDK on a computer

### Checklist: SmarTeam i-Platform SDK

\*Requirement: M = Mandatory, O = Optional

<input type="checkbox"/>	Item	M/O*	Reference
Stage 1: Pre-Installation			
<input type="checkbox"/>	Verify that your Hardware & Software meet the requirements	M	SmarTeam Hardware and Software Requirements Guide
<input type="checkbox"/>	Verify that the Microsoft Internet Information Services is installed on your computer	M	<a href="#">Installing Microsoft Internet Information Services (IIS)</a> If both, Windows 2003 and IIS exist on the system: verify in IIS Services Manager that Web Service Extensions are following step 6.
<input type="checkbox"/>	Check for any additional prerequisites on the SmarTeam Web Site	M	Release Notes of latest service pack in the release or <a href="#">support site</a>
Stage 2: Installation Process			
<input type="checkbox"/>	Run the SmarTeam i-Platform SDK installation	M	<a href="#">Installing SmarTeam I-Platform SDK</a>
Stage 3: Post Installation			
<input type="checkbox"/>	Verify and remedy security issues for the both SmarTeam i-Platform and SmartiXF SDK systems	M	<a href="#">Security Issues</a>



## Checklist: SmartiXF SDK

\*Requirement: M = Mandatory, O = Optional

<input type="checkbox"/>	Item	M/O*	Reference
<b>Stage 1: Pre-Installation</b>			
<input type="checkbox"/>	Verify that your Hardware & Software meet the requirements	M	SmarTeam Hardware and Software Requirements Guide
<input type="checkbox"/>	Verify that the Microsoft Internet Information Services is installed on your computer	M	<a href="#">Installing Microsoft Internet Information Services (IIS)</a> If both, Windows 2003 and IIS exist on the system: verify in IIS Services Manager that Web Service Extensions are following step 6.
<input type="checkbox"/>	Check for any additional prerequisites on the SmarTeam Web Site	M	Release Notes of latest service pack in the release or <a href="#">support site</a>
<b>Stage 2: Installation Process</b>			
<input type="checkbox"/>	Run the SmartiXF SDK installation	M	<a href="#">Installing SmartiXF SDK</a>
<b>Stage 3: Post Installation</b>			
<input type="checkbox"/>	Verify and remedy security issues for the both SmarTeam i-Platform and SmartiXF SDK systems	M	<a href="#">Security Issues</a>

## Checklist: Visual Components SDK

\*Requirement: M = Mandatory, O = Optional

<input type="checkbox"/>	Item	M/O*	Reference
<b>Stage 1: Pre-Installation</b>			
<input type="checkbox"/>	Verify that your Hardware & Software meet the requirements	M	SmarTeam Hardware and Software Requirements Guide
<input type="checkbox"/>	Verify that the Microsoft Internet Information Services is installed on your computer	M	<a href="#">Installing Microsoft Internet Information Services (IIS)</a> If both, Windows 2003 and IIS exist on the system: verify in IIS Services Manager that Web Service Extensions are following step 6.
<input type="checkbox"/>	Verify that these application is installed on your machine: <ul style="list-style-type: none"> <li>• SmarTeam – Foundation</li> </ul>	M	SmarTeam – Foundation Installation Guide
<input type="checkbox"/>	Check for any additional prerequisites on the SmarTeam Web Site	M	Release Notes of latest service pack in the release or <a href="#">support site</a>
<b>Stage 2: Installation Process</b>			
<input type="checkbox"/>	Run the Visual Components SDK installation	M	<a href="#">Installing Visual Components SDK</a>
<b>Stage 3: Post Installation</b>			
<input type="checkbox"/>	Perform Visual Components Post Installation Tasks	M	<a href="#">Adding SmarTeam Visual Components to the Visual Studio Toolbox</a>

# Chapter 3: System Requirements

## Hardware and Software Requirements

Refer to the i-Platform SDK, SmartIXF SDK components and SmarTeam Visual Components sections of the Hardware and Software Requirements document. This document describes the i-Platform SDK, SmartIXF SDK and SmarTeam Visual Components system requirements.

## System Requirements

Recommended system requirements necessitate sizing the specific customer configuration. Please contact the SmarTeam support team to obtain the most recent metrics, test results and recommendations.

## 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 four stages:

Stage 1: [System Requirements](#) (This Chapter)

Stage2: [Installing Microsoft Internet Information Services \(IIS\)](#)

Stage 3: [Installing SmarTeam I-Platform SDK](#), [Installing SmartIXF SDK](#) and [Installing Visual Components SDK](#) or [\(Chapter 4\)](#)

Stage 4: [Post Installation](#) [\(Chapter 5\)](#)

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

## Prerequisites

Before installing the i-Platform SDK, SmartIXF SDK and SmarTeam Visual Components, you must install the Microsoft Internet Information Services (IIS) and SmarTeam – Foundation.

## Installing Microsoft Internet Information Services (IIS)

In order to use Microsoft Internet Information Services (IIS) as your application server, the following procedure must be used for installing IIS on a Windows 2003 platform.

**To configure IIS on an existing Windows 2003 system:**

- 1** Select **Start, Settings, Control Panel, Administrative Tools**.
- 2** In the Welcome to Configure Your Server wizard:
  - Click **Next**
- 3** In the Preliminary Steps window:
  - Click **Next**
- 4** In the Server Role window:
  - Select **Application Server (IIS, ASP.NET)**
  - Click **Next**
- 5** In the Application Server Options window:
  - Select **Enable ASP.NET**
  - Click **Next**
- 6** In the IIS Services Manager window:
  - Click **Web Service Extensions**
  - Select **Server Side Includes**
  - Choose **Active Server Pages**
  - Click **Allow** to verify that the ASP.NET status is set to allowed.

**Note:** If both, Windows 2003 and IIS exist on the system; verify in IIS Services Manager that Web Service Extensions are following step 6.

## Installing SmarTeam – Foundation

For details about installing SmarTeam – Foundation on your machine, refer to the SmarTeam – Foundation Installation Guide.

## Chapter 4: Installation Process

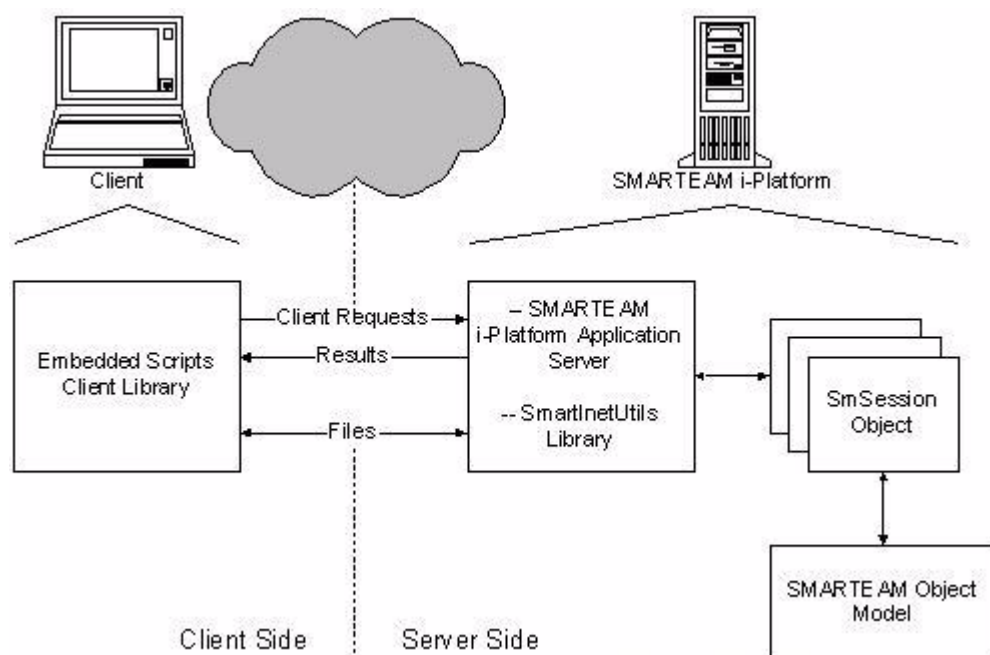
This chapter provides a step-by-step description of both i-Platform, IXF and Visual Components installation processes.

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
- **Back:** Allows you to return to the previous window
- **Cancel:** Allows you to abort the installation setup program without installing the SmarTeam I-Platform SDK, SmartIXF SDK or SmarTeam Visual Components

### Installing SmarTeam I-Platform SDK

This section describes the SmarTeam I - Platform installation process. The following diagram shows each component in relation to each other and the order of installation.



## Running the Installation

### To begin installing:

- 1 Insert the CD-ROM containing the DVS software in the CD-ROM drive.

**Note:** If for any reason the opening screen does not appear, click the **Start** button in the taskbar and select **Run** to open the Run utility. In the Run Open line, type **D:\install.exe** to run the installation setup program (where D denotes the CD ROM drive in which the CD-ROM is inserted.)

- From the Installations SmarTeam Core and Enterprise Services window, click **SmarTeam – Development Suite**.

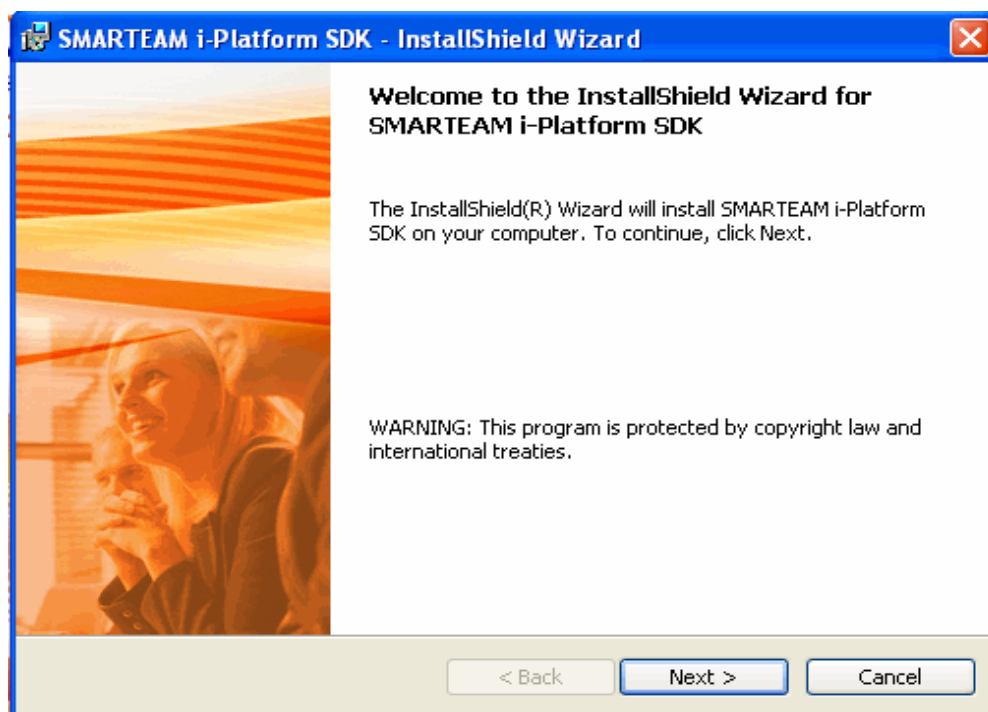


- 2 In the SmarTeam – Development Suite window:

- Click **i-Platform SDK**.



- 3 In the Welcome window, click **Next**.



- 4 In the Customer Information window:
- Personalize the program by entering your name and company details in the applicable fields.
  - In the Install this application for section, select one of the following radio buttons:

- Anyone who uses the computer (all users): Select this option to enable access to this installation by anyone who uses the specific computer
- Only for me (user name): Select this option to enable access to this installation only to the user entered in the User Name field.

■ Click **Next**

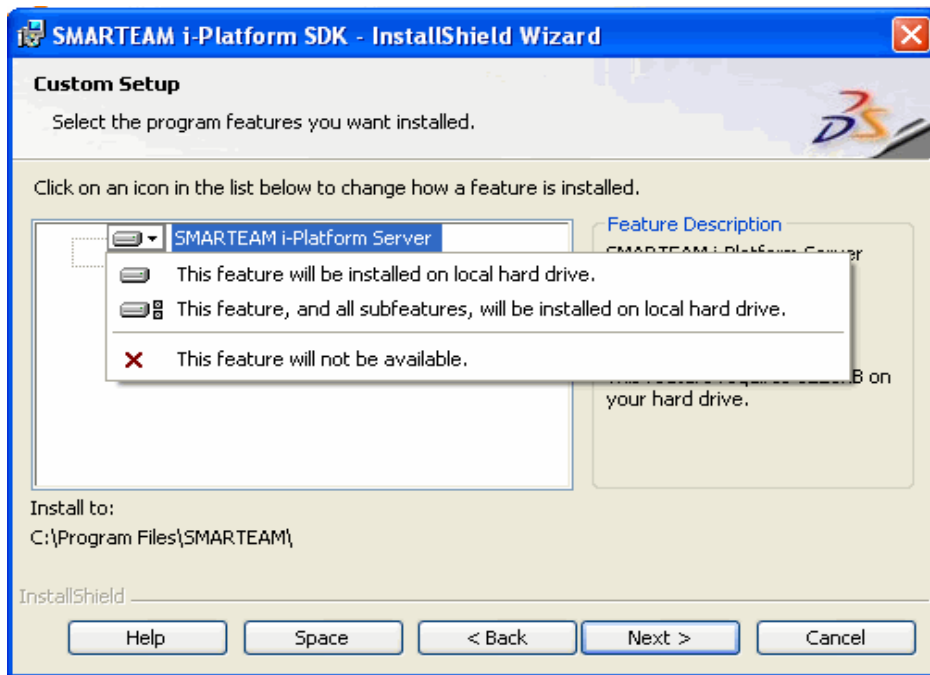
The screenshot shows the 'Customer Information' window of the SMARTeam i-Platform SDK - InstallShield Wizard. The window has a blue title bar with the text 'SMARTeam i-Platform SDK - InstallShield Wizard' and a close button. The main area is light gray with a blue header bar containing the text 'Customer Information' and 'Please enter your information.' Below this, there are two text input fields: 'User Name:' and 'Organization:'. Underneath these fields, there is a section titled 'Install this application for:' with two radio button options: 'Anyone who uses this computer (all users)' (which is selected) and 'Only for me ()'. At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

5 In the Custom Setup window, select one of the following features:

- SmarTeam i-Platform Server
- Libraries, Documentation and Samples

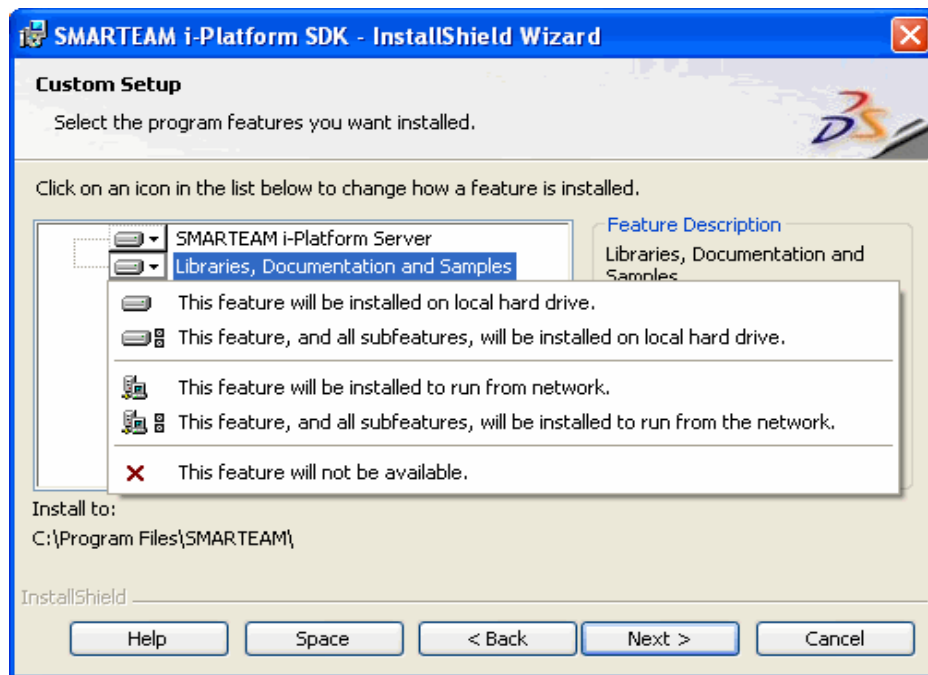
The screenshot shows the 'Custom Setup' window of the SMARTeam i-Platform SDK - InstallShield Wizard. The window has a blue title bar with the text 'SMARTeam i-Platform SDK - InstallShield Wizard' and a close button. The main area is light gray with a blue header bar containing the text 'Custom Setup' and 'Select the program features you want installed.' Below this, there is a section titled 'Click on an icon in the list below to change how a feature is installed.' This section contains a list of features with icons: 'SMARTeam i-Platform Server' (selected) and 'Libraries, Documentation and Samples'. To the right of the list, there is a 'Feature Description' box for the selected feature, which contains the text 'SMARTeam i-Platform Server' and 'This feature requires 3221KB on your hard drive.' Below the list, there is a section titled 'Install to:' with the text 'C:\Program Files\SMARTeam\'. At the bottom of the window, there are five buttons: 'Help', 'Space', '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

- a** If the SmarTeam i-Platform Server window was selected, select one of the following options:
- This feature will be installed on local hard drive
  - This feature, and all sub features, will be installed on local hard drive
  - This feature will not be available



- b** If the Libraries, Documentation and Samples was selected, choose from the following options:
- This feature will be installed on the local hard drive
  - This feature, and all sub features, will be installed on local hard drive
  - This feature will be installed to run from network
  - This feature, and all sub features, will be run from the network
  - This feature will not be available



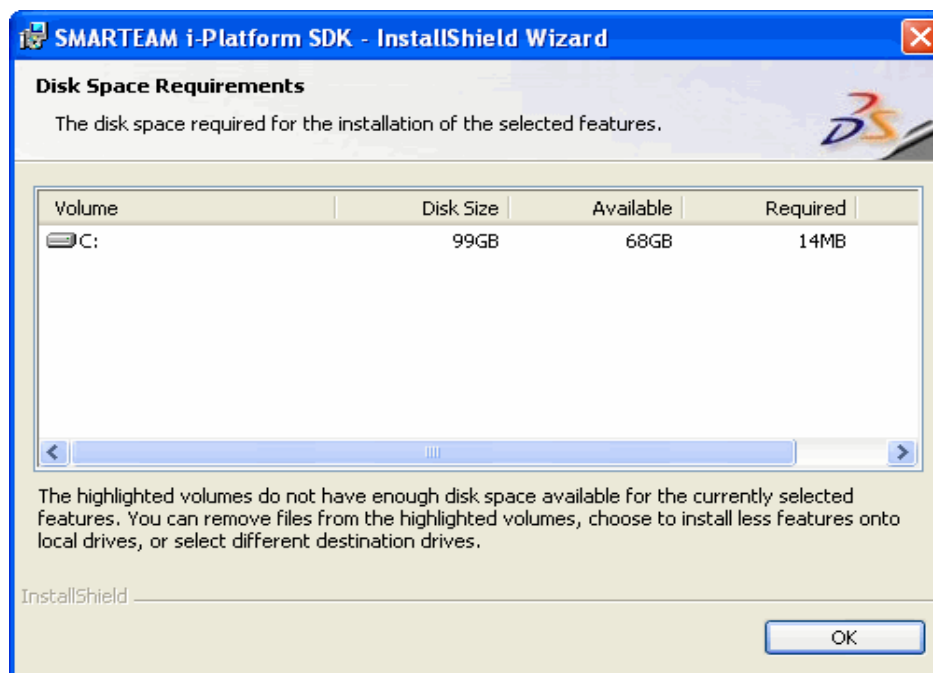


**Note:** The **Space Required** dialog displays the total amount of space required for the selected component.

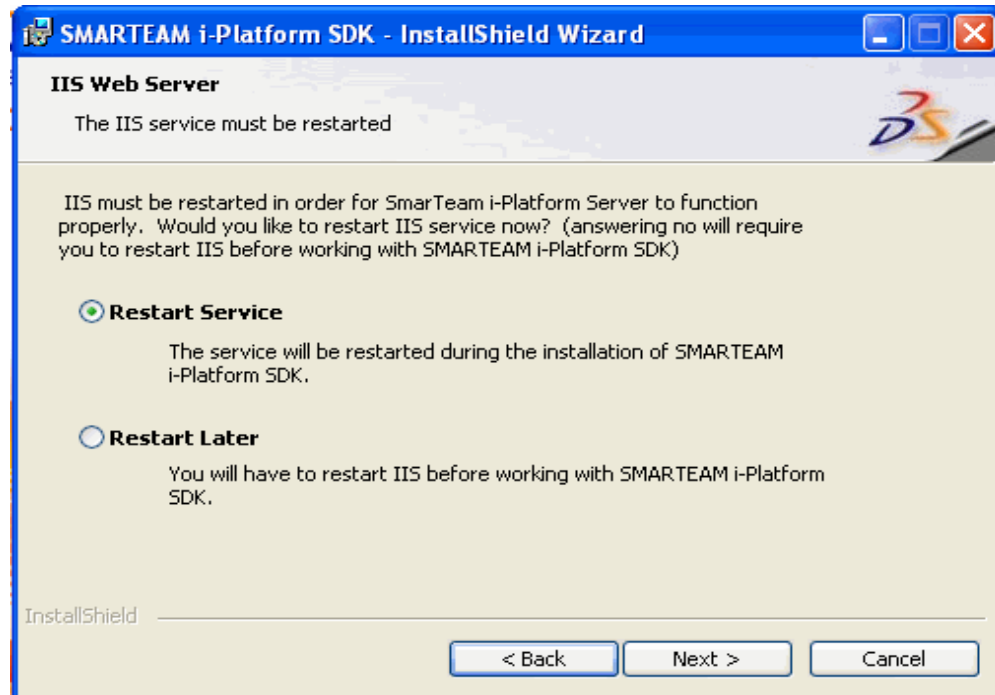
- c Click the **Space** button to display the disk space required for the selected features.

If the disk space required for the selected components totals more than the disk space available on the disk/drive selected, a warning message will appear. Either modify your selections by clearing components, or free sufficient disk space.

- Click **OK**.
- Click **Next**.



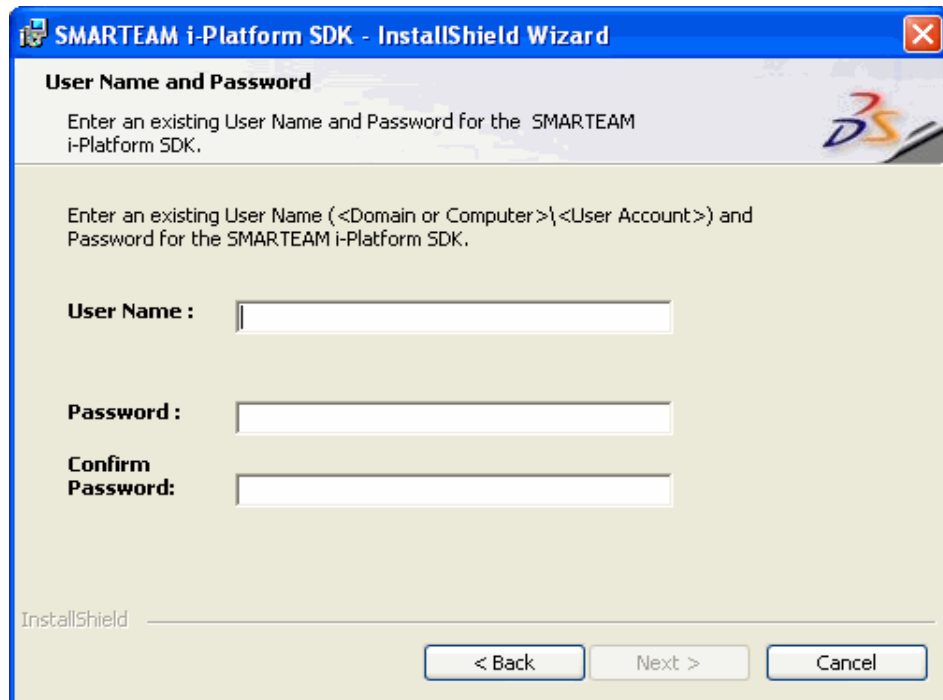
- 6 In the IIS Web Server window, select one of the options for restarting the Internet Information Service (IIS) service:
  - **Restart Service** - Installation process automatically restarts the IIS.
  - **Restart Later** - Enables IIS to be restarted manually, later.
  - Click **Next**.



- 7 In the **User Name and Password** window, enter the user name and password of an existing user as follows:
  - **Username** – Enter an existing username.

When using a **local user** name and password, enter the local computer name and user name in the following format: **local computer name\User Name**

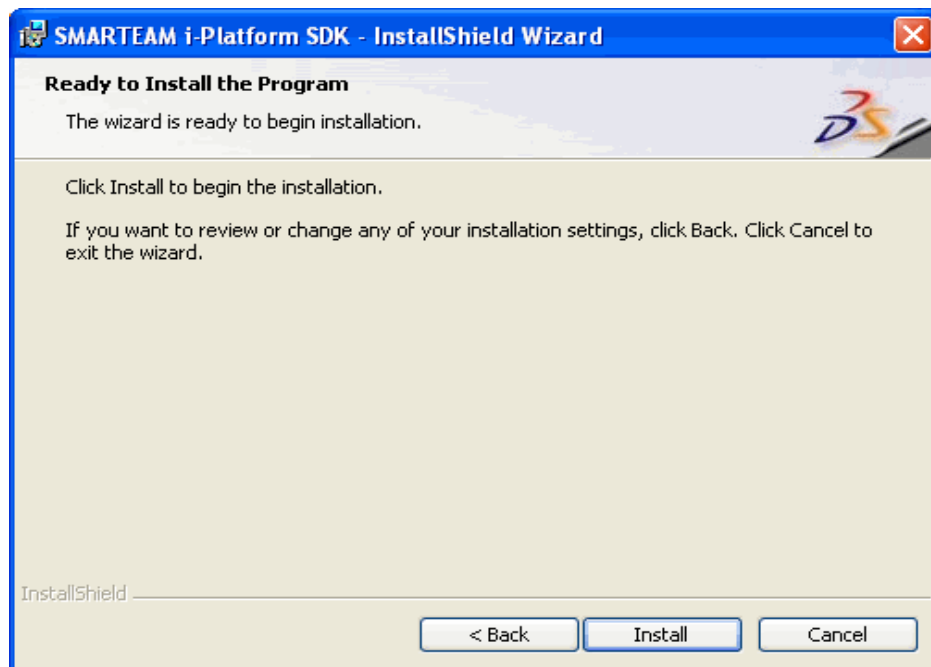
When using a **domain user** name and password, enter the domain name and username in the following format: **domain name\User Name**
  - **Password** – Enter a user password.
  - **Confirm Password** – Enter the password again for the process to begin.
  - Click **Next**.



The screenshot shows the 'User Name and Password' step of the SMARTEAM i-Platform SDK - InstallShield Wizard. The window has a blue title bar with the text 'SMARTEAM i-Platform SDK - InstallShield Wizard' and a close button. The main area is light beige with a blue header bar containing the text 'User Name and Password'. Below the header, there is a text box with the instruction: 'Enter an existing User Name and Password for the SMARTEAM i-Platform SDK.' Below this, there is another text box with the instruction: 'Enter an existing User Name (<Domain or Computer>\<User Account>) and Password for the SMARTEAM i-Platform SDK.' Below the instructions, there are three input fields: 'User Name :', 'Password:', and 'Confirm Password:'. At the bottom of the window, there is a status bar with the text 'InstallShield' and three buttons: '< Back', 'Next >', and 'Cancel'.

**8** In the **Ready to Install the Program** window:

- Click **Install** to start the installation process and copy files from the CD-ROM to the designated folders on your computer.



The screenshot shows the 'Ready to Install the Program' step of the SMARTEAM i-Platform SDK - InstallShield Wizard. The window has a blue title bar with the text 'SMARTEAM i-Platform SDK - InstallShield Wizard' and a close button. The main area is light beige with a blue header bar containing the text 'Ready to Install the Program'. Below the header, there is a text box with the instruction: 'The wizard is ready to begin installation.' Below this, there is another text box with the instruction: 'Click Install to begin the installation.' Below the instructions, there is a text box with the instruction: 'If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.' At the bottom of the window, there is a status bar with the text 'InstallShield' and three buttons: '< Back', 'Install', and 'Cancel'.

In the InstallShield Wizard Completed window:

- Click **Finish**.

**Note:** After completing installation, you must allow Active Server Pages (ASP) in the Internet Service Manager (IIS).

## Installing SmartIXF SDK

This section describes the installation procedure for the SmartIXF SDK. The software is available on the DVS CD-ROM.

### To begin installing:

- 1 Insert the CD-ROM containing the DVS software in the CD-ROM drive.

**Note:** If for any reason the opening screen does not appear, click the **Start** button in the taskbar and select **Run** to open the Run utility. In the Run Open line, type **D:\install.exe** to run the installation setup program (where D denotes the CD ROM drive in which the CD-ROM is inserted.)

- From the Installations SmarTeam Core and Enterprise Services window, click **SmarTeam – Development Suite**.

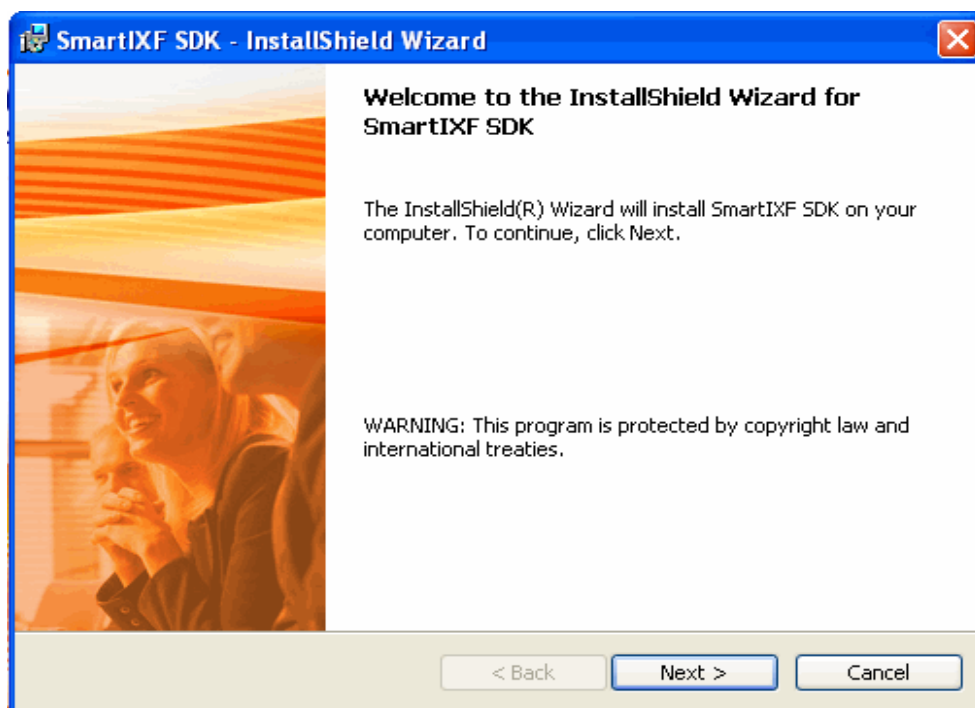


- 2 In the SmarTeam – Development Suite window:

- Click **SmartIXF SDK**.



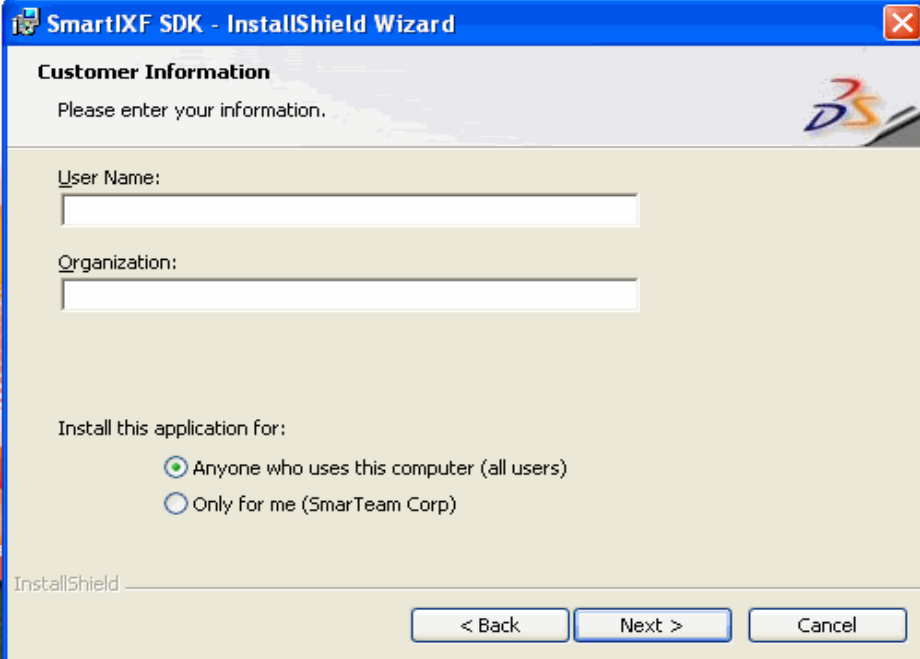
- 3 In the **Welcome** window, click **Next**.



- 4 In the Customer Information window:
- Personalize the program by entering your name and company details in the applicable fields.
  - In the Install this application for section, select one of the following radio buttons:

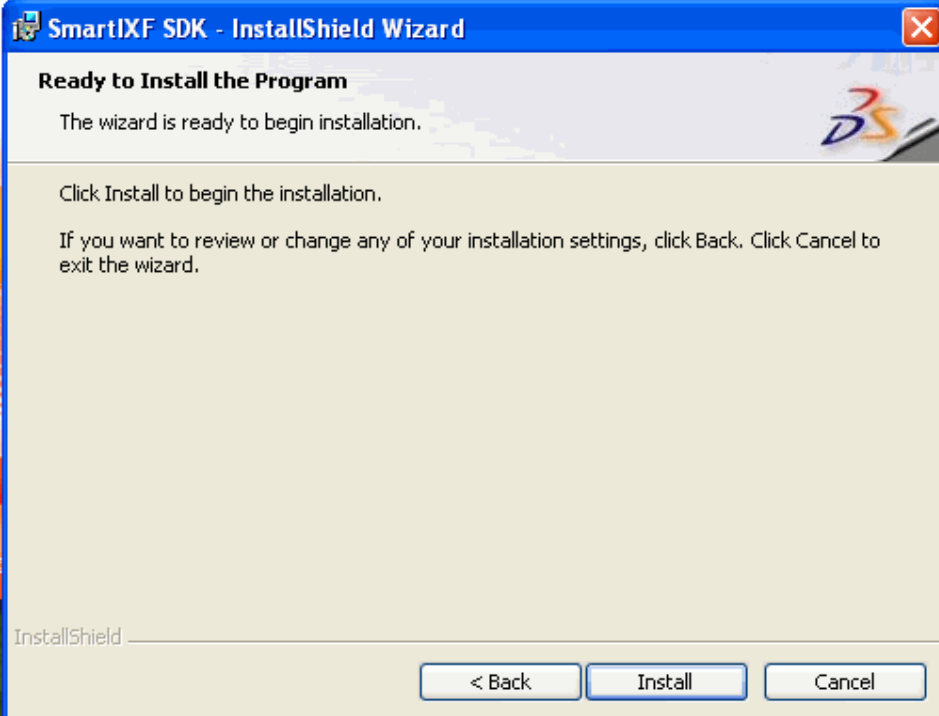
- Anyone who uses the computer (all users): Select this option to enable access to this installation by anyone who uses the specific computer
- Only for me (user name): Select this option to enable access to this installation only to the user entered in the User Name field.

■ Click **Next**.



The screenshot shows the 'SmartIXF SDK - InstallShield Wizard' window. The title bar is blue with the text 'SmartIXF SDK - InstallShield Wizard' and a close button. The main area has a light beige background. At the top, it says 'Customer Information' and 'Please enter your information.' Below this are two text input fields: 'User Name:' and 'Organization:'. Underneath these fields, it says 'Install this application for:' followed by two radio button options: 'Anyone who uses this computer (all users)' (which is selected) and 'Only for me (SmarTeam Corp)'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

- 5 In the **Ready to Install the Program** window, click **Install** to start the installation process and copy files from the CD-ROM to the designated folders on your computer.



The screenshot shows the 'SmartIXF SDK - InstallShield Wizard' window. The title bar is blue with the text 'SmartIXF SDK - InstallShield Wizard' and a close button. The main area has a light beige background. At the top, it says 'Ready to Install the Program' and 'The wizard is ready to begin installation.' Below this, it says 'Click Install to begin the installation.' and 'If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.' At the bottom, there are three buttons: '< Back', 'Install', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

- 6 In the **InstallShield Wizard Completed** window, click **Finish**.

## Installing Visual Components SDK

This section describes the installation procedure for the Visual Components SDK. The software is available on the DVS CD-ROM.

### To begin installing:

- 1 Insert the CD-ROM containing the DVS software in the CD-ROM drive.

**Note:** If for any reason the opening screen does not appear, click the **Start** button in the taskbar and select **Run** to open the Run utility. In the Run Open line, type **D:\install.exe** to run the installation setup program (where D denotes the CD ROM drive in which the CD-ROM is inserted.)

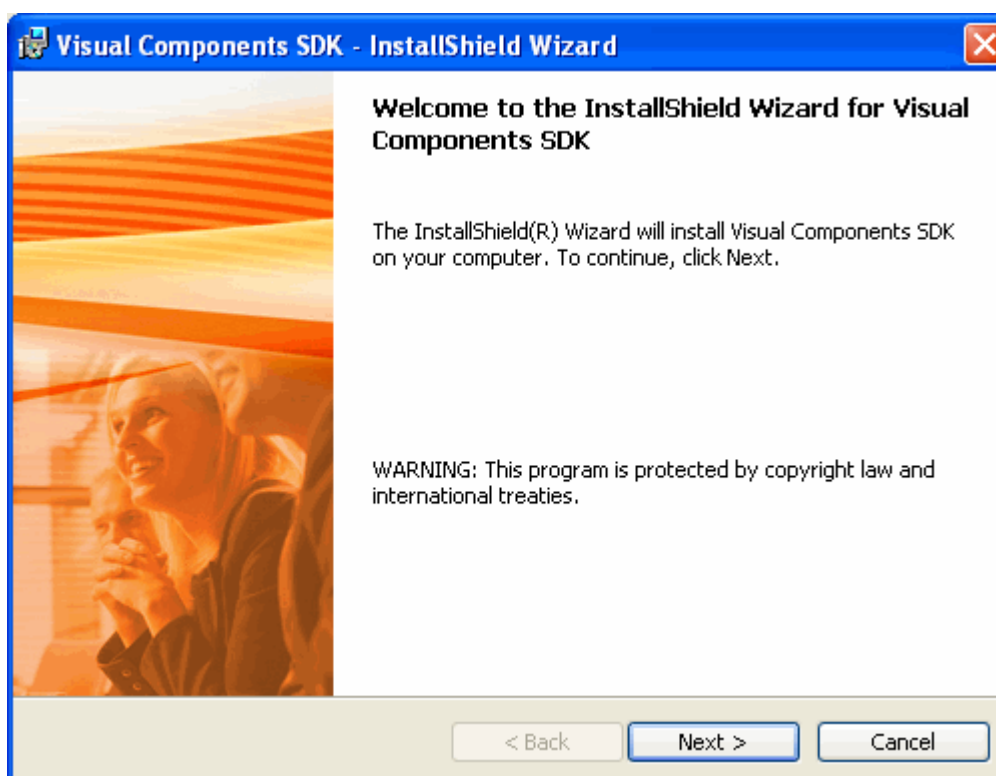
- From the Installations SmarTeam Core and Enterprise Services window, click **SmarTeam – Development Suite**.



- 2 In the SmarTeam – Development Suite window:
  - Click **Visual Components SDK**.

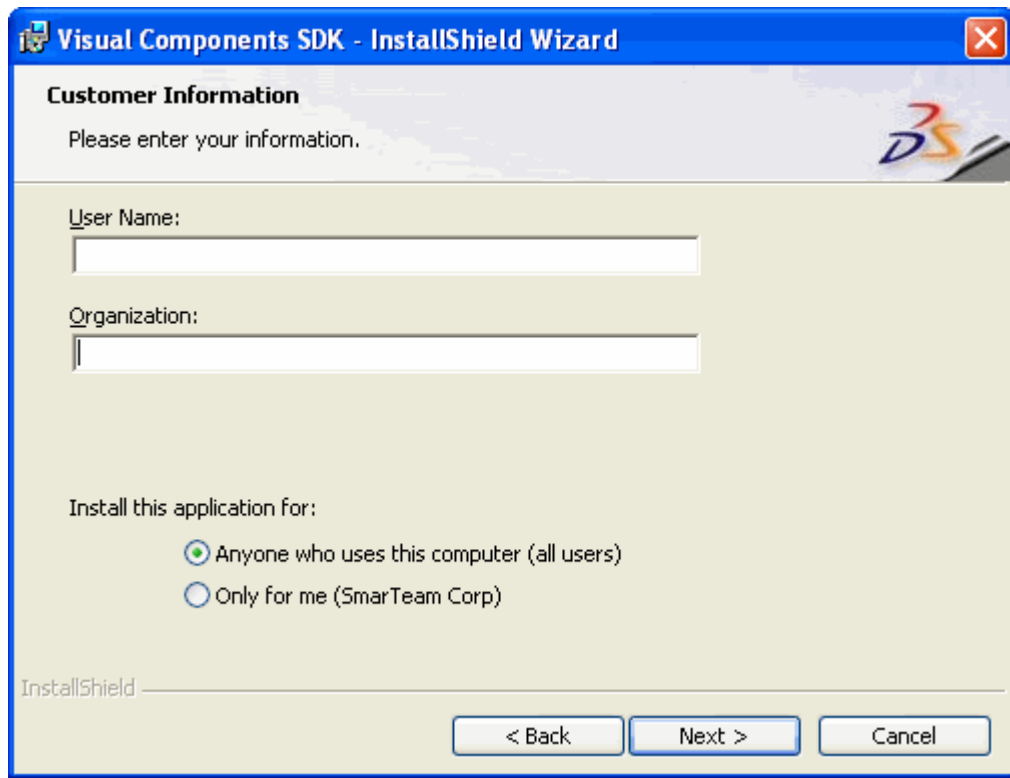


3 In the **Welcome** window, click **Next**.

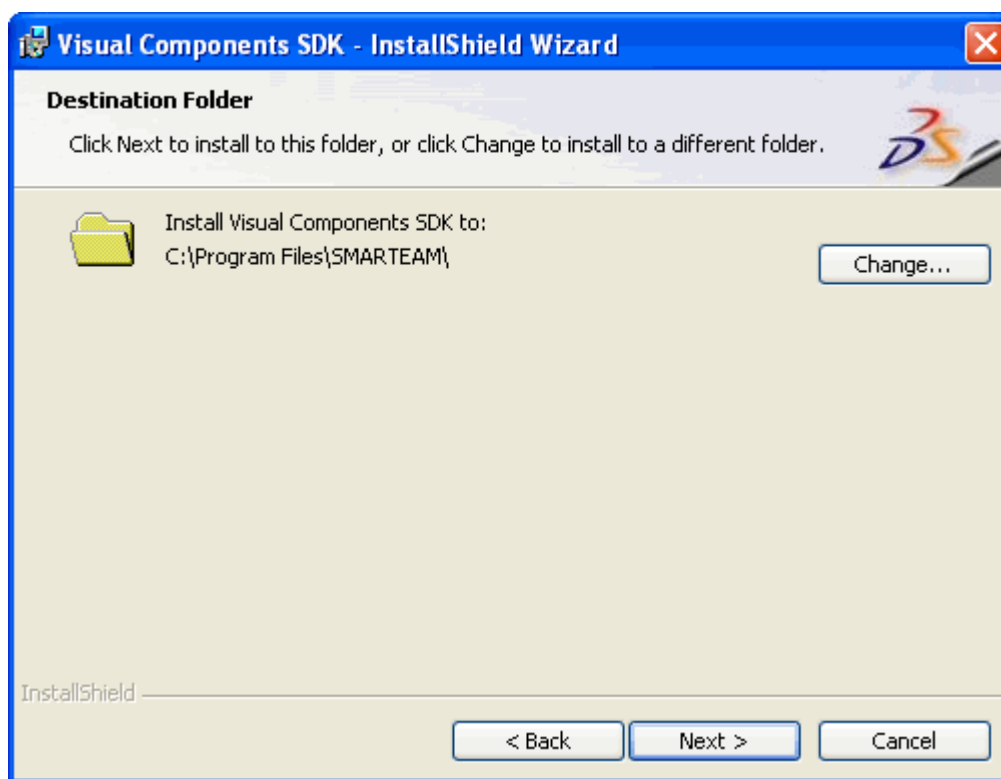




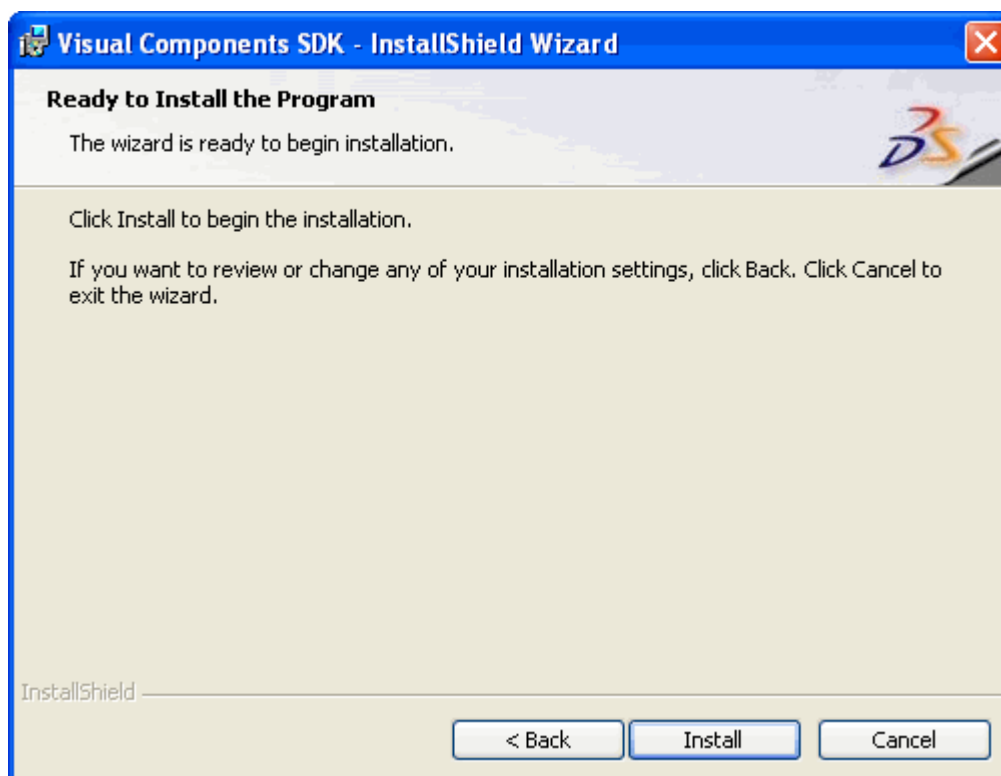
- 4 In the Customer Information window:
  - Personalize the program by entering your name and company details in the applicable fields.
  - In the Install this application for section, select one of the following radio buttons:
    - Anyone who uses the computer (all users): Select this option to enable access to this installation by anyone who uses the specific computer
    - Only for me (user name): Select this option to enable access to this installation only to the user entered in the User Name field.
  - Click **Next**.



- 5 If you need to change the current destination folder:
  - Click **Change** to open the Change Current Destination Folder window
  - Select a different destination folder
  - Click **OK**
  - Click **Next**



- 6 In the **Ready to Install the Program** window, click **Install** to start the installation process and copy files from the CD-ROM to the designated folders on your computer.



- 7 In the **InstallShield Wizard Completed** window, click **Finish**.

# Chapter 5: Post Installation

After the SmarTeam i-Platform and SmarTeam Visual Components SDK software is installed, security and other tasks are necessary to perform. The following guidelines should be followed.

## Security Issues

By default, data traveling across the public Internet is not encrypted. Consequently, unless certain precautions are taken, malicious parties may be able to tap into the communication channel and access restricted information.

Specifically, the following security issues are relevant:

- Exposure of user name and password and other proprietary information can enable an intruder to gain unauthorized access to the SmarTeam platform.
- Scripts may use the built-in SmarTeam facilities to bypass the normal SmarTeam security mechanism. Hence, non-authorized use of the script mechanism can compromise SmarTeam information.

## Deploying on Secure Channels

In view of the security issues involved, it is recommended to deploy the i-Platform SDK components so that communication between them takes place on a secure channel. This section describes the ways in which the i-Platform SDK components are normally configured on a network and specifies the secure channels that are required for each network configuration.

## Network Deployment Configurations

The network configurations in which the i-Platform SDK components are normally installed, are as follows:

- **Intranet:** Communication takes place between clients and the i-Platform Server, or between a server application and the i-Platform Server, where all nodes are protected by the same firewall. When using this configuration, no special secure channel is normally required.
- **Internet/Extranet:** Communication takes place between clients and the i-Platform Server, where the clients are located – unprotected – outside the company's firewall, and the i-Platform Server is located within the company's firewall. In this configuration, a secure channel, such as SSL or VPN, is highly recommended.

## Using SSL

The HTTP communication channel can be encrypted using the SSL protocol.

The Secure Sockets Layer (SSL) is a commonly used protocol for managing the security of a message transmission on the Internet. SSL uses the public-and-private key encryption system from RSA, which also includes the use of a digital certificate. SSL is an integral part of most Web browsers (clients) and Web servers.

By using SSL, the danger of sensitive data such as login information, propriety information or files being captured by a malicious party is eliminated.

**Note:** Unless client-side certificates are used, SSL does not provide a strong form of client authentication and unauthorized clients possessing a valid user name and password can still access the system.

## Using a VPN

A virtual private network (VPN) is a private data network that makes use of the public telecommunication infrastructure, maintaining privacy through the use of a tunneling protocol and security procedures.

Using a VPN involves encrypting data before sending it over the Internet and decrypting it at the receiving end.

One popular VPN protocol is Point-to-Point Tunneling Protocol (PPTP), which is incorporated into several popular operating systems. VPN software is typically installed as part of a company's firewall server.

A major benefit of a VPN is that both the client and the server are fully authenticated, which prevents unauthorized clients from accessing the server and circumvents most common types of security attacks.

The network diagram in Figure 2 Configuring i-Platform SDK Components in a VPN illustrates how to configure the i-Platform SDK components in a VPN.

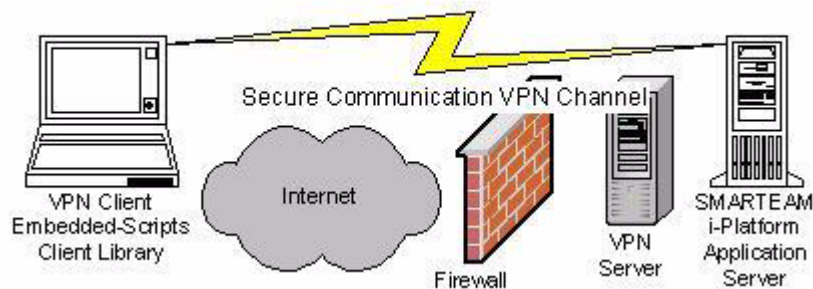


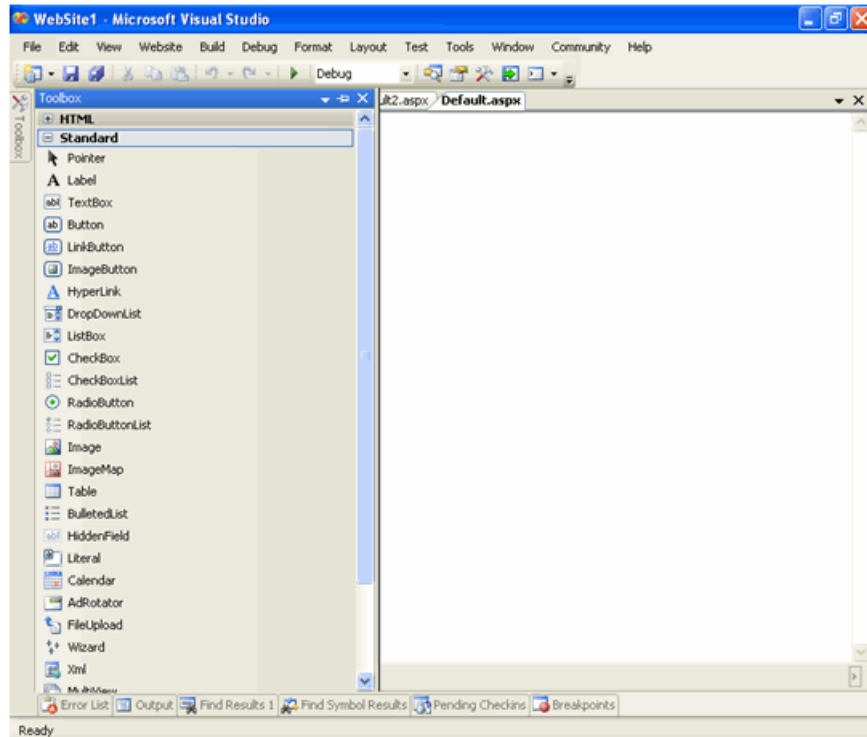
Figure 2 Configuring i-Platform SDK Components in a VPN

## Adding SmarTeam Visual Components to the Visual Studio Toolbox

After installing the SmarTeam Visual Components SDK, you might want to use the Visual Studio Toolbox to drag and drop Visual Components onto your web pages.

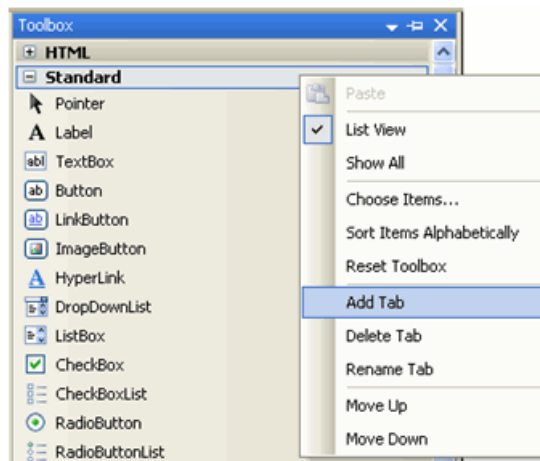
### *To add Visual Components to the Visual Studio Toolbox:*

- 1 Open **Visual Studio**.
- 2 Open **Toolbox View**.

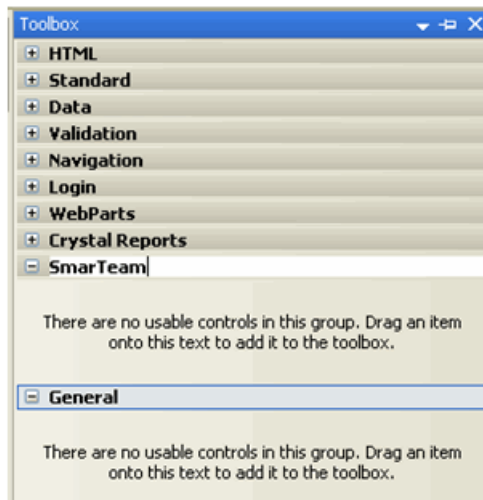


**Note:** To see web toolbox items you must open a .aspx page.

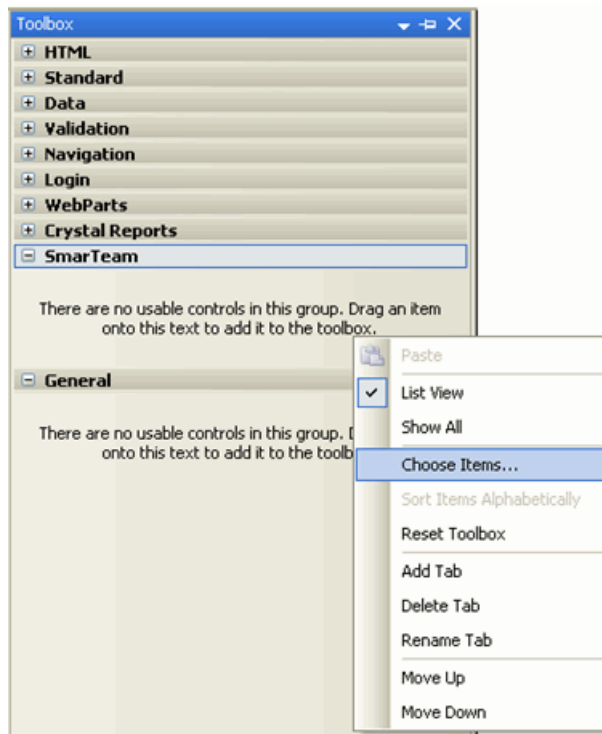
- 3 Right-click Toolbox and select **Add Tab** from the popup menu.



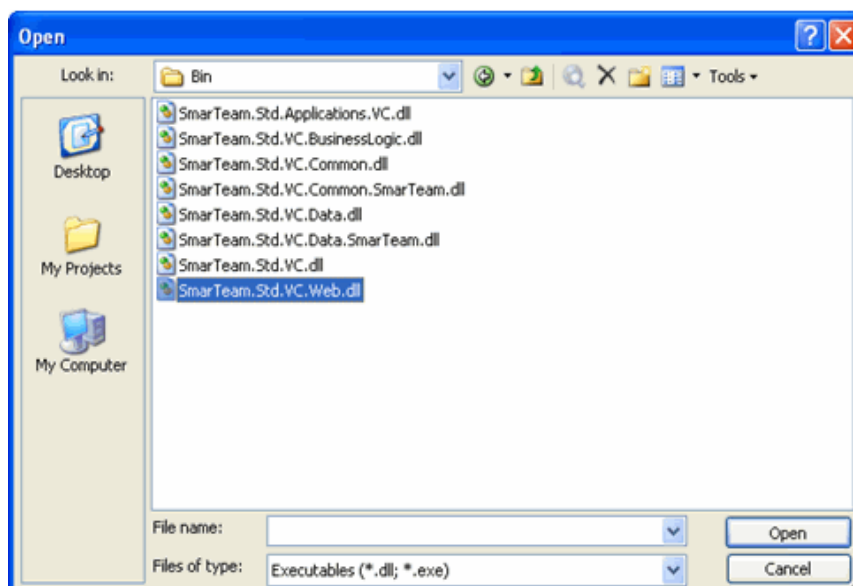
- 4 Name the new tab **SmarTeam**.



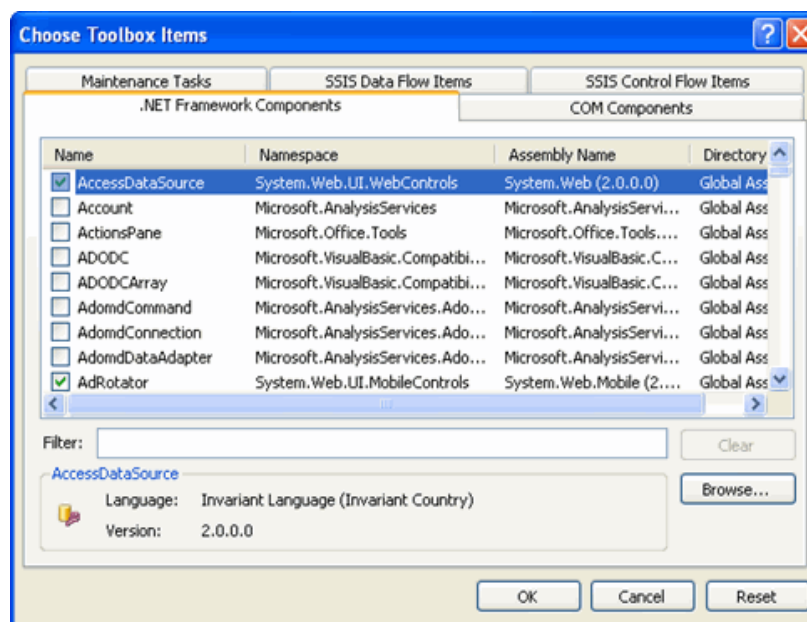
- 5 Right-click the SmarTeam tab and select **Choose Items** from the popup menu.



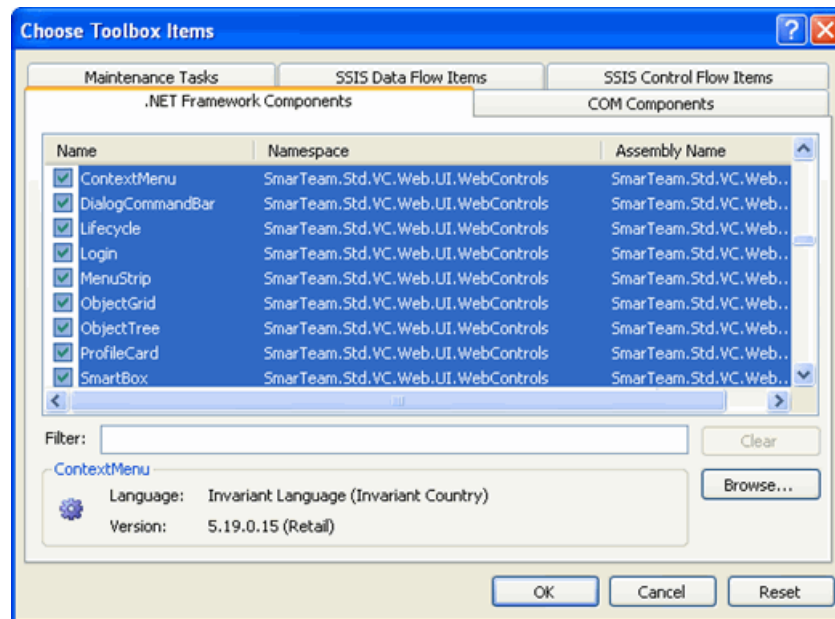
- 6 Navigate to the Visual Components SDK installation location (by default C:\Program Files\SmarTeam\Visual Components).
- 7 In the Bin folder:
- Select **SmarTeam.Std.VC.Web.dll** and click **Open**.



- Visual Components are added to the list of available ToolBox Items



- 8 Next to each Visual Component in the list, select the checkbox and click **OK**.



**Note:** You can sort the list by the **Namespace** column and then look for the items according to the namespace, e.g. SmarTeam.Std.VC.Web.UI.WebControls.

You should see the Visual Components controls under the SmarTeam tab. When you open the SmarTeam tab, you can see a list of Visual Components controls.

**Note:** To use a Visual Component control, a **VCMManager** control must be the first control on the page.

- 9 To use Visual Components, drag and drop the control you want to use onto an .aspx page.





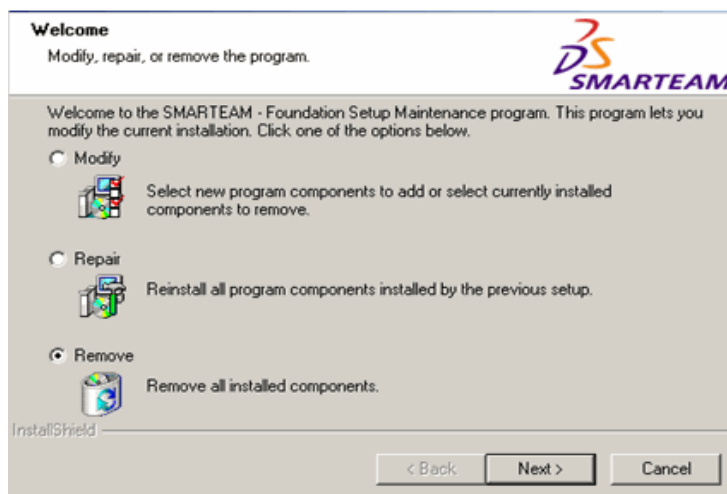
For information about setting up a Visual Components web site, refer to the SmarTeam Visual Components Customization Guide.

# Chapter 6: Troubleshooting

## Modify/ Repair/ Remove

If you have SmarTeam installed on your machine, when you insert the original software, the Program Maintenance window appears. The following options are available:

- **Modify:** Enables you to install new components that were not installed during the installation process. For details see [Modify](#).
- **Repair:** Repairs installation errors in the program. This option fixes missing or corrupt files, shortcuts and registry entries. For details see [Repair](#).
- **Remove:** Removes SmarTeam – Gateway from your computer. For details see [Remove](#).



### Modify

If you need to modify the configuration of the current SmarTeam – Gateway installation on the machine, select **Modify** and the Select Components window appears, enabling you to change the components selection.

### Repair

**To repair an error using the Add or Remove Programs facility on your computer:**

- 1** Select **Start, Settings, Control Panel, Add or Remove Programs**.
- 2** Select **SmarTeam – Gateway Installation**.
- 3** Click "**Click here for support information**" link; the Support Info window appears.
- 4** Click **Repair** in order to repair the installation.

## Remove

If required you can remove SmarTeam – Gateway Installation from your computer. This can be done by using either the Release CD or the Add or Remove Programs facility on your computer.

To uninstall a Service Pack you need only to uninstall the Release. This will automatically remove the relevant Service Packs.

### ***To uninstall using the Release CD:***

- 1** Insert the SmarTeam – Gateway Installation release CD. The Program Maintenance window is displayed.
- 2** Select **Remove**.
- 3** Click **Next**.

Follow the remaining instructions on the CD.

### ***To uninstall using the Add or Remove Programs facility on your computer:***

- 1** Select **Start, Settings, Control Panel, Add or Remove Programs**.
- 2** Select **SmarTeam – Gateway Installation**.
- 3** Click **Remove**.

## Known Issues

For installation known issues, refer to the SmarTeam Program Directory.

## Frequently Asked Questions

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

# Chapter 7: Silent Installation

## Overview

This chapter describes how to use the Microsoft® Windows Installer to perform silent installations for three SmarTeam SDKs:

- SmarTeam SDK (I-Platform)
- SmarTeam SDK (IXF)
- SmarTeam SDK (Visual Components)

The Microsoft® Windows Installer performs a command-line based installation without requiring any user interface dialogs. This enables an administrator to use a script to install a SmarTeam DVS applications automatically for a group of computers.

The [Command-Line Operation](#) section defines the options and properties that can be used in the command-line installation commands.

The Sample SmarTeam DVS application Silent Installation Scripts in each section provides some common command-line installation scenarios.

**Note:** Before you run SmarTeam application Silent installation scripts via CMD on a Microsoft® Windows 2003 terminal server, perform the following:

1. Enter **change user /install** at the command prompt to set the system in install mode and turn off .ini file mapping.

The system then records how the setup APIs initially install the program.

After the program installation finishes, enter **change user/execute** to reset the system to execute mode, restore .ini file mapping and redirect user-specific data to the user's home directory.

## SmarTeam – SDK (I - Platform + IXF)

### I - Platform

#### 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>"
```

where the relevant options are detailed in the sections below.

**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.

**Command-Line Properties Table**

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 i-Platform SDK features delimited by commas that are to be installed locally.

GUI Dialog	Property	Value	Description
IIS Web Server	IIS_RESTART	Property value can be "Restart" (default value) or "NoRestart" IIS	A value of IIS_RESTART property means : IIS will be automatically restarted during installation or user should manually restart it later.  IIS_RESTART property is relevant only if SmarTeam_i_Platform_Server feature was chosen for installation.
User Name and Password	USER_NAME	A full user name <Domain\Machine Name >\<User Name >	Full user name of a user that has privileges for installing SmarTeam-i-Platform_Server feature. It is mandatory property for installing this feature.
	USER_PASSWORD	Password prepared in advance	The password of the user name provided in the USER_NAME property USER_PASSWORD is a mandatory property when SmarTeam_i_Platform_Server feature was chosen for installation.
	USER_CONFIRM_PASSWORD	Confirmed password	Confirmed user's password. USER_CONFIRM_PASSWORD is mandatory when SmarTeam_i_Platform_Server was chosen for installation.

## 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
SMARTEAM i-Platform Server	SmarTeam_i_Platform_Server
Libraries, Documentation and Samples	SmarTeam_i_Platform_SDK
	EmbeddedScriptsDemo



## Silent Installation Example (to Cut and Paste)

Open Command Prompt window (cmd.exe) and run following line:

Install full SmarTeam i-Platform SDK silent installation with log file

```
"<path to SMARTEAM i-Platform SDK setup.exe>" /s /v"/qb /L*v
%temp%\STiPlatformSDKSilentInstall.log ALLUSERS=1
USER_NAME=iltdm122\Administrator USER_PASSWORD=123456
USER_CONFIRM_PASSWORD=123456"
```

Install full SmarTeam i-Platform SDK silent installation only with "SmarTeam\_i\_Platform\_SDK" feature (use ADDLOCAL parameter to specify feature to be installed)

```
"<path to SMARTEAM i-Platform SDK setup.exe>" /s /v"/qb /L*v
%temp%\STiPlatformSDKSilentInstall.log ALLUSERS=1
ADDLOCAL=SmarTeam_i_Platform_SDK,EmbeddedScriptsDemo"
```

Run silent SmarTeam i-Platform SDK installation using msixec.exe utility and with log file

```
msiexec /I "<path to SMARTEAM i-Platform SDK.msi >" /qb /L*v "%temp%\
STiPlatformSDKSilentInstall.log" ALLUSERS=1
USER_NAME=iltdm122\Administrator USER_PASSWORD=123456
USER_CONFIRM_PASSWORD=123456
```

Run silent SmarTeam i-Platform SDK installation using msixec.exe utility , install only feature "SmarTeam\_i\_Platform\_SDK" and with log file,

```
msiexec /I "<path to SMARTEAM i-Platform SDK.msi >" /qb /L*v "%temp%\
STiPlatformSDKSilentInstall.log" ALLUSERS=1
ADDLOCAL=SmarTeam_i_Platform_SDK,EmbeddedScriptsDemo
```

Run silent SmarTeam i-Platform SDK installation using msixec.exe utility , install only feature "SmarTeam\_i\_Platform\_Server" and with log file,

```
msiexec /I "<path to SMARTEAM i-Platform SDK.msi >" /qb /L*v "%temp%\
STiPlatformSDKSilentInstall.log" ALLUSERS=1
USER_NAME=iltdm122\Administrator USER_PASSWORD=123456
USER_CONFIRM_PASSWORD=123456 ADDLOCAL=SmarTeam_i_Platform_Server
```

## IXF

## Command-Line Operation

This document 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>"
```

where the relevant options are detailed in the sections below.

**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.

## Command-Line Properties

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	<b>Options:</b> <b>ALLUSERS</b> <b>parameter omitted:</b> <b>ALLUSERS = 2</b> Per-user installation using folders in user's personal profile. (Installation works only for that user.) <b>ALLUSERS =1</b> Per-machine installation using folders in "All Users" profile. (Installation works for all users on the machine.)	Administrator access privileges. <b>ALLUSERS</b> property determines if the installation is per-user or per-machine.
N/A	ADDLOCAL	See below for list of parameter values	The value of the ADDLOCAL property is a list of SmartIXF SDK 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
SmartIXF Merge Modules	SmartIXF
SmartIXF SDK Files	SDK_Files

### Silent Installation Example (to Cut and Paste)

Open Command Prompt window (cmd.exe) and run following line:

Install full SmartIXF SDK silent installation with log file

```
"<path to SmartIXF SDK setup.exe>" /s /v"/qb /L*v  
%temp%\SmartIXFSDKSilentInstall.log ALLUSERS=1"
```

Run full silent SmartIXF SDK installation using msixec.exe utility and with log file

```
msiexec /I "<path to SmartIXF SDK.msi >" /qb /L*v "%temp%\  
SmartIXFSDKSilentInstall.log" ALLUSERS=
```

## SmarTeam SDK (Visual Components )

### 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 sections below.

**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	<b>Options:</b> <b>ALLUSERS</b> <b>parameter omitted:</b> <b>ALLUSERS = 2</b> Per-user installation using folders in user's personal profile. (Installation works only for that user.) <b>ALLUSERS =1</b> Per-machine installation using folders in "All Users" profile. (Installation works for all users on the machine.)	Administrator access privileges. <b>ALLUSERS</b> property determines if the installation is per-user or per-machine.
Destination Folder	INSTALLDIR	Directory name	Full path of the target installation directory in which to install the application. <b>Note:</b> This has to be the last property in the command line.

## 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.

N/A

## Silent Installation Example (Cut and Paste)

Open Command Prompt window (cmd.exe) and run following line:

Install SmartTeam Visual Components SDK silent installation with log file

```
"<path to Visual Components SDK setup.exe>" /s /v"/qb /L*v  
%temp%\STVisualComponentsSilentInstall.log ALLUSERS=1"
```

Run silent SmartTeam Visual Components SDK installation using msixec.exe utility and with log file

```
msiexec /I "<path to Visual Components SDK.msi >" /qb /L*v "%temp%\  
STVisualComponentsSilentInstall.log" ALLUSERS=1
```