

# Installation Guide

*iPlanet™ XML Adapter Designer*

**Version 2.0**

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# Contents

<b>The XAD Software Distribution</b> .....	<b>5</b>
<b>Installation Overview</b> .....	<b>6</b>
To install the XAD software .....	6
<b>XAD Software Requirements</b> .....	<b>7</b>
<b>Setting Up Your Environment for XAD</b> .....	<b>7</b>
To set the required environment variables on a Solaris platform .....	7
To set the required user variables on a Windows platform .....	8
<b>Setting Up Your Environment for the iIS Example</b> .....	<b>9</b>
To create a repository named xad .....	9
To create a workspace named xaddemo .....	10
To import the iIS process engine libraries into the repository .....	10
To create an iIS process engine named XADDemoEng .....	10
<b>Installing the Software</b> .....	<b>11</b>
To install the XAD software .....	11
<b>Uninstalling XAD Software</b> .....	<b>19</b>
To uninstall the XAD software .....	19



# Installation

This document explains how to install iPlanet XML Adapter Designer (XAD) 2.0 software and its bundled examples.

## The XAD Software Distribution

The XAD software distribution contains:

- The XAD 2.0 software, which includes:
  - **The XAD generator** This is the tool you use to design and generate adapters.
  - **XAD libraries** These provide runtime support for your adapters.
  - **A generic test client** This test client provides a lightweight means to iteratively test your adapter during the development cycle.
- **Example XAD generated adapters**
- **An example iPlanet Integration Server (iIS) application** You can run this application as a client to the example XAD adapters to see a demonstration of how XML adapters communicate with an iIS engine. An appendix in the *XAD User's Guide* walks you through the demonstration setup and execution.
- **The XAD installer**

# Installation Overview

This section provides a high-level overview of the requirements and procedures for installing the XAD software. Subsequent sections provide more detailed information on the requirements and step-by-step instructions on how to perform the procedures.

► **To install the XAD software**

1. Ensure that your system meets the software requirements described in [“XAD Software Requirements” on page 7](#).
2. Uninstall your existing XAD installation if necessary.  
See [“Installing the Software” on page 11](#) for information on whether you should uninstall an existing installation. See [“Uninstalling XAD Software” on page 19](#) for information on how to uninstall.
3. Configure your operating system environment for installing the XAD software (see [“Setting Up Your Environment for XAD” on page 7](#)).
4. If you plan to install the iIS example application, set up your UDS and iIS environments for installing the example iIS application (see [“Setting Up Your Environment for the iIS Example” on page 9](#)).
5. Run the installation wizard (see [“Installing the Software” on page 11](#)).

During a full XAD software installation, the installer:

- Imports the XAD generation, testing and example components into your target workspace
- Makes application distributions
- Installs the example components in the environment
- Registers the iIS example application plans with the iIS engine
- Configures the iIS backbone

# XAD Software Requirements

XAD depends on the runtime support of several other software products, including iPlanet Unified Development Server (UDS). Before you attempt to install XAD, ensure that the version of your operating system is supported and that supported releases of the following software products are installed:

- UDS
- Java Development Kit (JDK)
- *For Java adapters only.* Software to support the transport protocol used between your client and adapter.
  - To use HTTP, you must have a supported web server installed.
  - To use Java Message Service (JMS), you must have a supported implementation of JMS installed.

Also, if you are installing the iIS example application, ensure that a supported releases of iIS is installed on your system.

Refer to the platform matrix at

<http://docs.iplanet.com/docs/manuals/xad.html#matrix> for a listing of the supported versions of these software products.

## Setting Up Your Environment for XAD

Before installing the XAD software, you must configure the operating system of the central server node of your UDS environment by setting a number of variables. Use whichever of the following procedures is appropriate for your operating system.

### ► To set the required environment variables on a Solaris platform

1. Ensure that the following environment variables exist and are set to the specified values:

Environment Variable	Value
XAD_ROOT	The installation directory of the XAD software, for example, <code>/var/XAD</code> .
FORTE_ROOT	The top-level directory of your UDS installation, for example, <code>/var/forte</code> . (If you are installing only the XAD core components, you do not have to set this variable.)

Environment Variable	Value
FORTE_ENVNAME	The name of your UDS environment, typically centrale. (If you are installing only the XAD core components, you do not have to set this variable.)
JAVA_HOME	The top-level directory of your JDK installation.

2. Set the value of the PATH environment variable to include:

`$XAD_ROOT/install/bin`

3. If you plan to use JMS as the transport protocol between your adapter and client, create an environment variable named JMQ\_HOME and set its value to the directory in which your iMQ software is installed.

► **To set the required user variables on a Windows platform**

1. Ensure that the following user variables exist and are set to the specified values:

Environment Variable	Value
XAD_ROOT	The installation directory of the XAD software, for example, C:\XAD.
JAVA_HOME	The top-level directory of your JDK installation.

2. Set the value of the PATH user variable to include:

`%XAD_ROOT%\install\bin`

3. If you plan to use JMS as your transport protocol between your adapter and client, create a user variable named JMQ\_HOME and set its value to the directory in which your iMQ software is installed.

# Setting Up Your Environment for the iIS Example

If you plan to install the iIS example application, you must first modify the environment of your UDS central node as follows:

- Create a repository and point your UDS environment to it.
- Create a workspace.
- Import the iIS process engine libraries into the repository.
- Create an iIS process engine; start and leave the engine running.

The procedures in this section show you how to create a repository named `xad` in the `FORTE_ROOT/repos` directory, a workspace named `xaddemo`, and a process engine named `XADDemoEng`. The installation guide uses these names throughout as example names, as does the documentation for running the example XAD adapters (see the *XAD User's Guide*). Using these names will make it easier for you to follow the written procedures. However, you can choose whatever location and names you want for your own installation.

## ► To create a repository named `xad`

1. Start your UDS environment if it is not already running.
2. Create a repository using the following command.

```
rpcreate -fr bt:xad
```

3. Point your UDS environment to the `xad` repository.

On Solaris platforms, set the `FORTE_REPOSNAME` environment variable to the location of the repository. For example, if the repository is located in `$FORTE_ROOT/repos`, you could use the following C shell command:

```
setenv FORTE_REPOSNAME bt:$FORTE_ROOT/repos/xad
```

On Windows platforms, open the UDS Control Panel and change the value of the Repository Name field to point to your new repository. For example, if the repository is located in `C:\forte\repos`, change the value to:

```
bt:c:\forte\repos\xad
```

For more information on creating UDS repositories, refer to the *iPlanet UDS System Management Guide*.

➤ **To create a workspace named xaddemo**

1. Start the Repository Workshop.
2. Select File > New Workspace and name the new workspace:  
xaddemo
3. Shut down the Repository Workshop, but leave your UDS environment running.

➤ **To import the iIS process engine libraries into the repository**

1. On Solaris platforms use the following command:

```
fscript -i $FORTE_ROOT/install/scripts/ldc_rp.scr -fr  
bt:$FORTE_ROOT/repos/xad -fw xaddemo
```

2. On Windows platforms use the following command:

```
fscript -i %FORTE_ROOT%\install\scripts\ldc_rp.scr -fr  
bt:%FORTE_ROOT%\repos\xad -fw xaddemo
```

➤ **To create an iIS process engine named XADDemoEng**

1. Start the iIS Console and create a new engine.
2. Select Engine > New and name the new engine XADDemoEng.  
The engine is case sensitive on Solaris platforms.
3. Configure the engine according to your system requirements.  
Refer to the *iIS Process System Guide* or iIS online help for information on configuring iIS process engines.
4. If you plan to continue with the XAD installation, cold start the engine and leave it running.

# Installing the Software

You can use the XAD installer to install XAD components into an existing installation that doesn't have those components already installed. For example, you may have already installed the XAD core components and the XAD Generator, but not the iIS example application. In this case you could use the XAD installer to install the iIS example application into your existing installation.

The XAD installer will not overwrite files. This means that it will not delete development work you have in progress. It also means, however, that you cannot use the installer to update a previous version of XAD. To do this, you must install XAD in a different directory than your existing XAD installation or first uninstall your existing installation. See [“Uninstalling XAD Software” on page 19](#) for information on uninstalling existing installations.

## ► To install the XAD software

1. If the UDS Environment Manager is not running, start it.
2. If you plan to install the iIS example application, ensure that the XADDemoEng engine is running.
3. Execute the setup file.

For Windows platforms, use a Windows Explorer to navigate to the `windows` directory of the XAD distribution and double-click the `xadsetup.exe` file.

For Solaris platforms, use the File Manager to navigate to the `solaris` directory of the XAD distribution and double-click the `xadsetup.class` file.

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**NOTE** If the installer doesn't start up, check that your `JAVA_HOME` environment variable points to the JDK version supported by XAD. Also check that your `CLASSPATH` environment variable includes the working directory.

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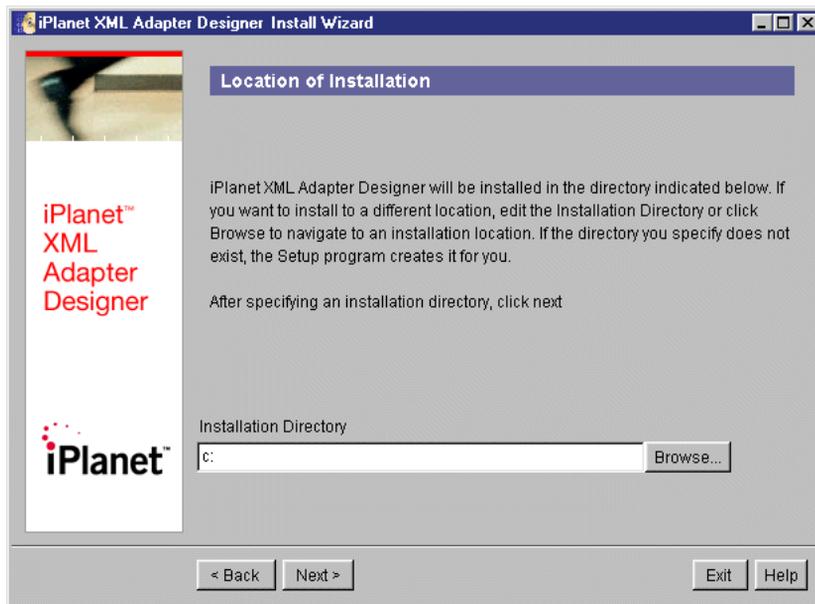
The installation wizard starts.

4. Exit running programs, other than the Environment Manager and the iIS Engine, and then click Next.

The Software License Agreement page opens.

5. Read the license agreement and then click Yes (Accept License) to continue with the installation.

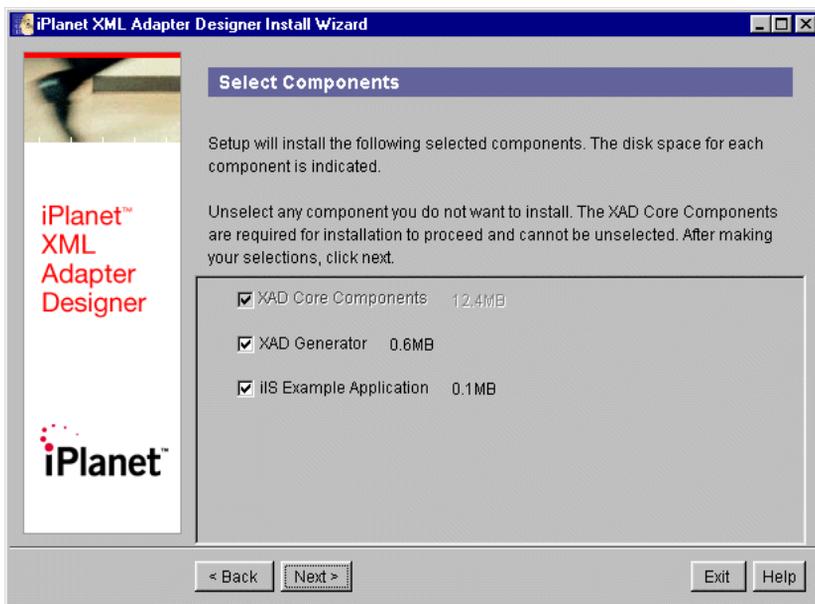
The Location of Installation page opens.



6. In the Installation Directory field, specify the directory in which you want to install the XAD software, then click Next.

This directory must match the value you specified for the variable XAD\_ROOT in [“Setting Up Your Environment for XAD” on page 7](#).

The Select Components page opens.



7. Select the software components you want to install.

The following table describes the components.

Component Name	Description
XAD Core Components	<p>The XAD libraries, the adapter test client, and some example adapters that have been generated using XAD.</p> <p>If your installation directory does not already have the XAD core components installed, this option is selected and disabled by default.</p> <p>If your installation directory already has the XAD core components installed, this option is deselected and disabled by default.</p>
XAD Generator	The tool you use to design and generate adapters.
iIS Example Application	The iIS example application. You can run this application as a client to the example XAD adapters provided in the distribution.

If you select only the XAD core components, skip to [Step 10](#).

8. Click Next.

If you are installing the XAD generator or the example iIS application, The XAD Settings page opens.

The fields displayed on this page vary according to which components you chose to install.

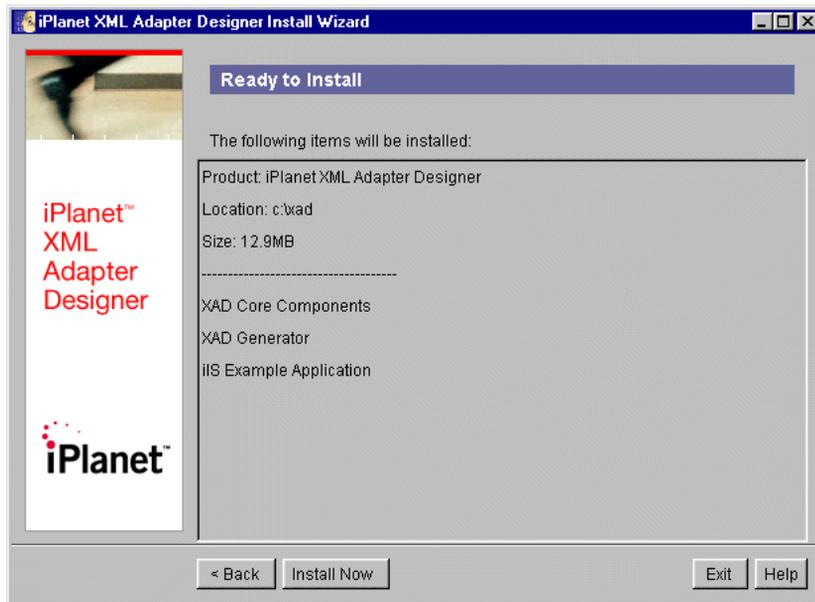
9. Set the values of the fields on this page according to the following table.

Field	Value
XAD Generator Node	The name of the UDS node on which you are installing the XAD generator.
XAD Example Node	The name of the UDS node on which you will run the iIS proxy for the iIS example application.
XAD Example URL	DNS name for the machine on which you are installing the XAD software. (The DNS name is the host portion of the machine's URL, for example, titan.varrius.com.)

Field	Value
iIS Process Engine	The name of the iIS process engine you will use for running the example iIS application, for example, XADDemoEng. This name must match the name you gave the engine in <a href="#">“Setting Up Your Environment for the iIS Example” on page 9</a> . This value is case sensitive.
Repository	The UDS repository in which to import the plans for the example iIS application. The value in this field must match the value you entered in the Repository Name field of the UDS Control Panel in <a href="#">Step 3 on page 9</a> , for example, bt:c:\forte\repos\xad.
Workspace	The name of the UDS workspace in which to save the plans for the example iIS application, for example, xaddemo. This name must match the name you gave the workspace in <a href="#">“Setting Up Your Environment for the iIS Example” on page 9</a> .

**10. Click Next.**

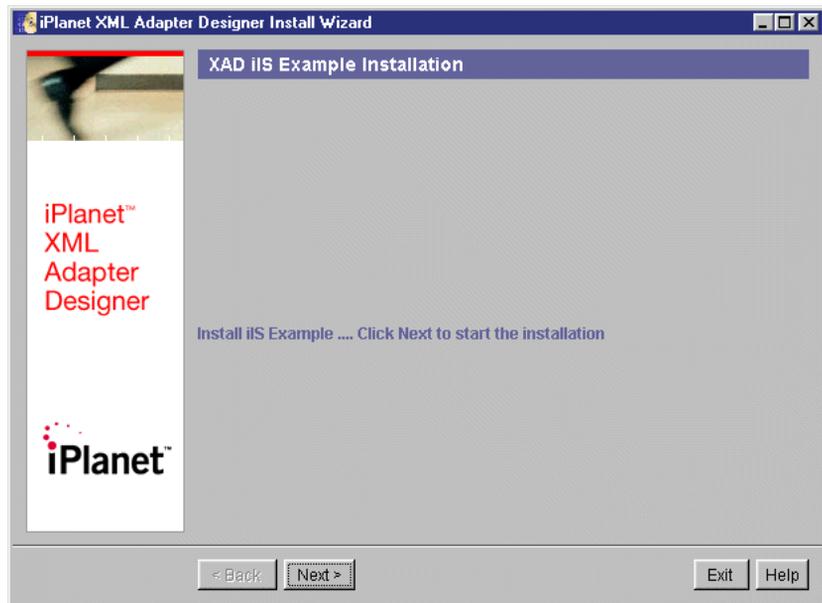
The Ready to Install page opens. This page lists the software components that will be installed.



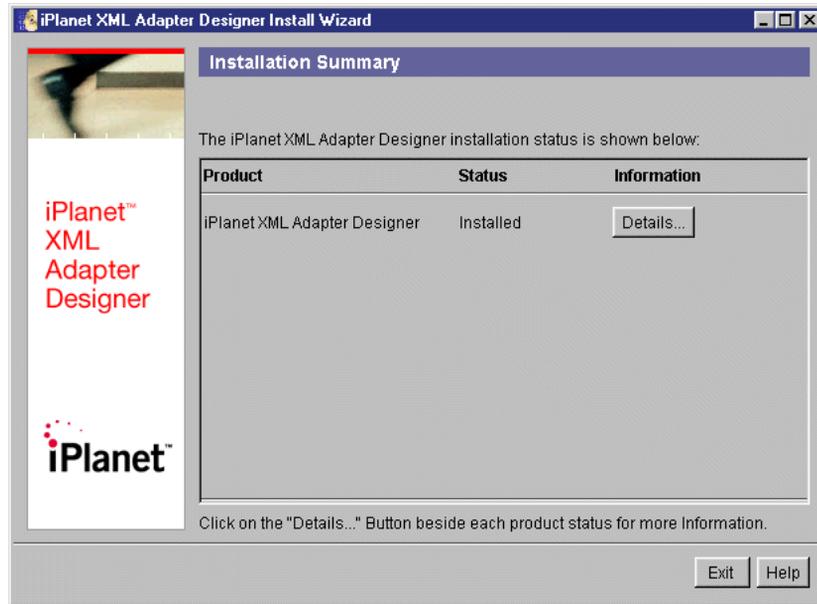
## 11. Click Install Now.

If you chose to install the XAD core components or XAD generator, installation of these components begins.

If you chose to install the example iIS application, the XAD iIS Example Installation page opens after installation of the XAD core components and generator is complete. In this case, click Next to install the example iIS application.



The Installation Summary page opens when the installation of all components you chose to install is complete.



12. Examine the Installation Summary page to ensure that your software installed correctly.
13. Click Exit to close the installation wizard.
14. Verify the success of your installation by checking the installation log file located at `XAD_ROOT\log\installxad.log`. Also, if you installed the iIS example application, ensure that the process definition (`XAD_Demo_PD`), the assignment rules (`XADDemoServer` and `XADDemoClient`), the user profile (`XADDemoProfile`), and the user validation (`UserValidation`) are registered with the engine.

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**NOTE** You can verify the version of your XAD installation by viewing the contents of the `xad.ver` file located in the `XAD_ROOT\install\scripts` directory.

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# Uninstalling XAD Software

## ► To uninstall the XAD software

1. Start the XAD uninstallation wizard.

On Solaris platforms, navigate to your *XAD\_ROOT* directory and run the uninstaller class using the following case sensitive command:

```
java uninstall_iPlanet_XML_Adapter_Designer
```

On Windows platforms, use the Add/Remove utility as follows:

- a. Choose Start > Settings > Control Panel.
- b. Double-click Add/Remove Programs.

The Add/Remove Programs Properties dialog box opens.

- c. Select XAD.

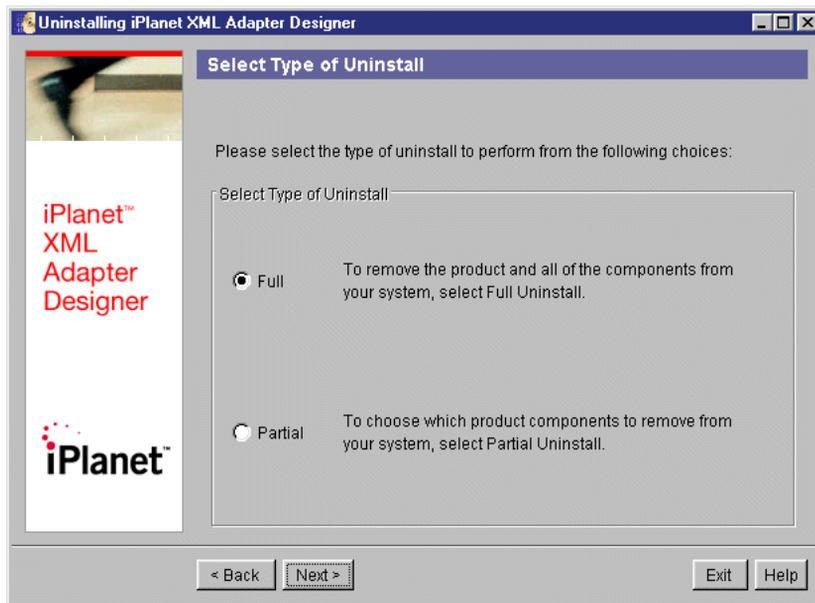


- d. Click Add/ Remove and then OK.

The uninstallation wizard opens.

2. Click next.

The Select Type of Uninstall page opens.

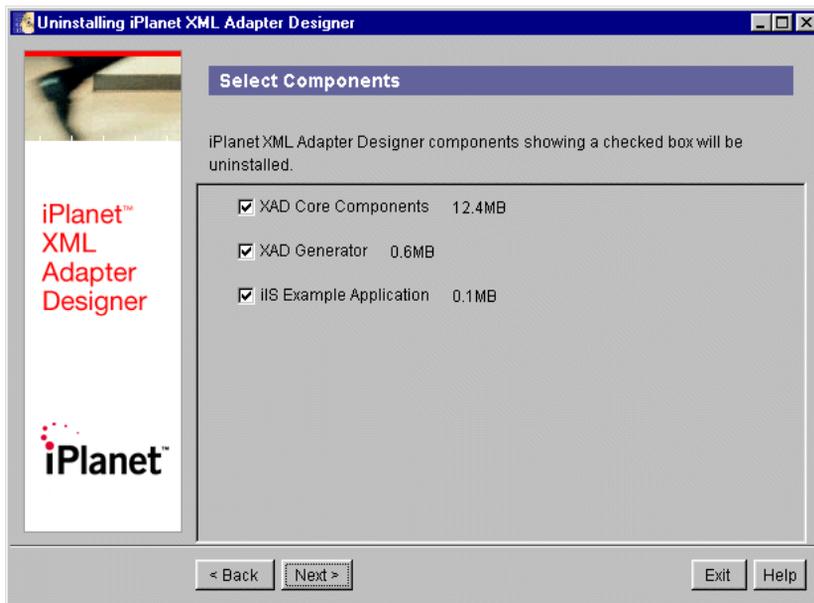


3. If you want to uninstall your entire XAD installation, select Full and skip to [Step 4](#).

If you want to uninstall some components of your XAD installation, select Partial and continue to [Step a](#).

- a. Click Next.

The Select Components page opens.



- b. Select the software components you want to uninstall.

The following table describes the components.

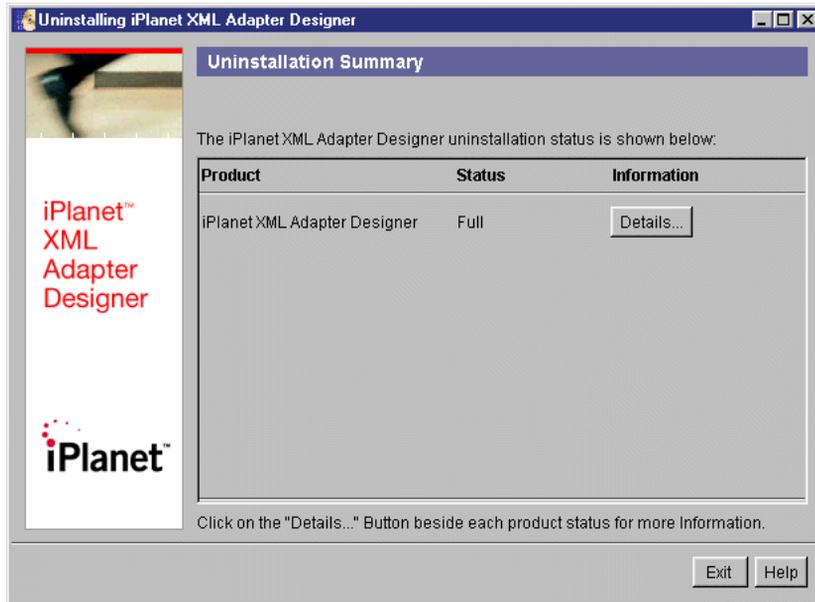
Component Name	Description
XAD Core Components	The XAD libraries, the adapter test client, and some example adapters that have been generated using XAD.
XAD Generator	The tool you use to design and generate adapters.
iIS Example Application	The iIS example application. You can run this application as a client to the example XAD adapters provided in the distribution.

4. Click Next.

The Ready to Uninstall page opens. This page lists the components to be uninstalled.

5. Click Uninstall Now.

The Uninstall Summary page opens. This page provides information about the results of your uninstallation procedure.



6. Click Exit to close the uninstallation wizard.