



Wise Package Studio® Getting Started Guide

Notice

Wise Package Studio®, version 7.0

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Preface

Wise Package Studio® helps system administrators and desktop integration labs streamline the process of packaging software applications for delivery to end users. It encompasses all phases of an application's lifecycle, from the initial repackaging to the final testing and distribution.

Wise Package Studio improves on traditional packaging practices by combining best practice methodologies with industry-leading software installation technology. In addition, software packages created with Wise Package Studio can be distributed through many of the leading software distribution products currently on the market.

Documentation Roadmap

This documentation assumes that you are proficient in the use of the Windows operating system. If you need help using the operating system, consult its user documentation.

Use the following sources of information to learn this product.

Online Help

The online help contains detailed technical information and step-by-step instructions for performing common tasks.

Access help in the following ways:

- To display context-sensitive help for the active page or dialog, press F1.
- To select a help topic from a table of contents, index, or search, select Help menu > Help Topics.

If you need help and cannot find the answer in the documentation, see [Getting Help and Product Support](#) on page 6.

Reference Manual

All the material in the online help is also available in a .PDF-format reference manual, which you can access by selecting Help menu > Reference Manual.

The following tools have separate manuals: ConflictManager, Linux Package Editor, Mobile Device Package Editor, Software Manager, Virtual Package Editor, Windows Installer Editor, and WiseScript Package Editor.

Getting Started

The *Getting Started Guide* contains system requirements, installation instructions, and a tutorial. You can access a .PDF version of the *Getting Started Guide* from the Windows Start menu.

The installation and repository management sections of the *Getting Started Guide* are also available as online help. In the Wise Repository Manager, select Help menu > Help Topics, or click the Help button on any of the Wise Package Studio installation dialogs.

Release Notes

A release notes document, in .HTM format, covers new features, enhancements, bug fixes, and known issues for the current version of this product. Access the release notes in the following ways:

- Browse the product CD.
- Select it from the Altiris program group on the Windows Start menu.
- If you are a registered customer, visit <http://support.wise.com> to enter the Support Center, and then click the Downloads link.

Windows Installer SDK Help (Windows Installer Editor only)

You can get technical details about Windows Installer from its own help system, which is written by Microsoft for a developer audience. In Wise for Windows Installer, select Help menu > Windows Installer SDK Help.

Version 3.1 of the Windows Installer SDK Help is provided. If you have obtained a later version, links from the Wise product documentation to the Windows Installer SDK Help might not work.

Getting Help and Product Support

If you need help and cannot find the answer in the documentation (see [Documentation Roadmap](#)), you can use one of the many support resources that are available to you as a registered customer.

Use the Technical Support Center

Registered customers can use the Technical Support Center, located at <http://support.wise.com>, to submit online support requests, register products, manage customer information, download updates, or search the Knowledgebase. The Knowledgebase contains how-to procedures, answers to common support questions, and workarounds.

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Ask Our Support Team

If you can't find an answer in our online resources, you can obtain support by phone or online at <http://support.wise.com>. Flexible payment options are available to meet your support needs. For additional details about our support services, visit www.wise.com/supportoptions.asp or call 1-734-456-2600.

Before you contact technical support, obtain the following:

- Serial number and product version, which you can find by selecting Help menu > About.
- Operating system version and service pack version if applicable.
- A description of what you do before the problem occurs.
- The text of any error messages that appear.

- Your name, company name, and how to contact you.
- Contract number or payment information, if applicable.

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Chapter 1

Installation Best Practices for Wise Package Studio

This section provides information on the best way to install and configure Wise Package Studio for your environment.

Topics include:

- [System Requirements](#)
- [Before You Install Wise Package Studio](#)
- [Choosing the Location for the Share Point Directory](#)
- [Configuration Best Practices](#)
- [Authentication Best Practices](#)

System Requirements

Note

Wise Package Studio cannot be installed on any computer that contains Wise for Visual Studio .NET or Wise for Windows Installer (any edition or version).

Wise Package Studio Requirements

The requirements below apply to all editions and modules of Wise Package Studio, except as noted.

Wise Package Studio Requirement	Value
Computer/processor	PC with a Pentium III-class processor, 800 MHz
Operating system	Windows 2000 or later (SP4 recommended) Windows XP Professional (SP2 recommended) Windows Server 2003

Note
SetupCapture cannot be run on Windows 95, 98, or NT4. To capture on those operating systems, use Wise Web Capture, which is described in the Wise Package Studio Help.

Wise Package Studio Requirement	Value
Microsoft Internet Explorer	5.5 or later* * Reports require 6.0 or later, or Microsoft XML Parser (MSXML) 3.0 Service Pack 7.
RAM	256 MB; 1 GB recommended
Free space on installation drive	Standard Edition: 150 MB Professional Edition, Server with share point: 150 MB + (number of applications x 30 MB) Professional Edition, Client: negligible
Network (not applicable to Standard Edition)	Windows-based network environment
Database (not applicable to Standard Edition)	Your environment must contain at least one server that has one of the following: <ul style="list-style-type: none"> • Microsoft SQL Server (English version only). Version 7.0 required; 2000 recommended. SQL Server 2005 and SQL Server 2005 Express are supported. • Microsoft Data Engine (MSDE). MSDE does not support Wise Package Studio client installations. If you will install Wise Package Studio in a client-server configuration, use SQL Server. If you are upgrading from a previous version of Wise Package Studio that used Access databases, the Wise Repository Manager will upgrade the databases to SQL Server or MSDE.

Installations that you create using Wise Package Studio can be run on any Windows operating systems that are supported by Windows Installer.

Windows 95 and earlier versions of Windows NT 4.0 do not contain Windows Installer software by default, so if you plan to run an installation on those operating systems, configure it to pre-install Windows Installer. To do so, use the option provided in Installation Expert > Prerequisites page.

Web Applications Requirements

The Wise Package Studio Web applications are available only if you purchased the following:

- Management Reports: included with Enterprise Management Server module.
- Preflight Data Collector and Preflight Analysis: included with the Quality Assurance module.
- Wise Web Capture: included with the Professional Edition.

Web Application Requirement	Value
Computer/Processor	Pentium III, 800 MHz
Operating system	As required by Microsoft Internet Information Server
Microsoft Internet Information Server (IIS)	4.0 or later required; 5.0 recommended
Microsoft Internet Explorer	5.5 or later required; 6.0 recommended
RAM	256 MB; 1 GB recommended
Free space on installation drive	10 MB
Database (not applicable to Standard Edition)	<p>Your environment must contain at least one server that has one of the following:</p> <ul style="list-style-type: none"> • Microsoft SQL Server (English version only). Version 7.0 required; 2000 recommended. SQL Server 2005 and SQL Server 2005 Express are supported. • Microsoft Data Engine (MSDE). <p>MSDE does not support Wise Package Studio client installations. If you will install Wise Package Studio in a client-server configuration, use SQL Server.</p>
.NET Framework (Wise Web Capture only)	1.1 must be installed on the server. Later versions may be installed also, but Wise Web Capture works with version 1.1 only.
ASP	Must be installed and enabled
ASP.NET (Wise Web Capture only)	Must be installed and enabled
ISAPI extensions	Must be enabled

.NET Framework System Requirements

The .NET Framework is required for advanced .NET support in Windows Installer Editor. The .NET Framework requires Microsoft® Internet Explorer 5.01 or later and one of the operating systems supported by Wise Package Studio.

Version 1.1 of the .NET Framework is required by the Wise Web Capture tool. Later versions may be installed also, but Wise Web Capture works with version 1.1 only.

Before You Install Wise Package Studio

You might need to gather information, from a team leader, system administrator, database administrator, or other team members, that will enable you to install Wise Package Studio correctly for your environment.

- Review the [Configuration Best Practices](#) on page 12 to determine the best configuration for your environment.
- If you are upgrading from a previous version of Wise Package Studio, back up the existing share point directory and Wise Package Studio databases.
- Have serial numbers available during installation. If this is an upgrade, you also need the serial number of the previous version. To find this, open the previous version of Wise Package Studio and select Help menu > About.
- Find out what share point directory to use. In a multi-user environment, the share point directory must be on a shared network drive. All users in a workgroup must specify the same share point directory during installation. This lets all users access the same packages and data. See [Choosing the Location for the Share Point Directory](#) on page 12.

If you have been using a previous version of Wise Package Studio, you can use your existing share point, but data will be updated to a new format.

- If you are installing the Professional Edition, obtain the following information about the databases you are using for Wise Package Studio:
 - The name of the server that contains the database and the authentication method (NT or SQL Server) that the database uses.
 - Whether the database has been created or whether you need to create it during installation. If it does not exist or needs to be upgraded, you need database administrator privileges to create or upgrade it.
 - So that you can create databases, either your currently logged on user profile must have database administrator privileges on the database server, or you must have the SQL user name and password of a database administrator available.
 - If you plan to use a SQL Server or MSDE database server that uses SQL Server authentication, you will need to create users during installation. These users will have access to the database you create. You need to know what user IDs to create.
- If you are performing a client installation, obtain the following information about the server installation that the client will connect to.
 - The name and location of the share point directory that was configured during the server installation.
 - (Network Client installations.) The location of the Wise Package Studio directory that was specified during the server installation.

For a list of the options for installing Wise Package Studio, see [Installation Options](#) on page 22.

Choosing the Location for the Share Point Directory

➤ *Not available in Standard Edition.*

The Standard Edition does not use a share point directory.

The recommended location of the share point directory depends on your environment and the edition of Wise Package Studio you have purchased. (Also see [Configuration Best Practices](#) on page 12.)

Where to Locate the Share Point Directory

The share point directory must reside on the same computer as the Wise Package Studio application files. Versions of Wise Package Studio earlier than 6.0 did not enforce this. If you are upgrading to 6.0 or later, and your share point directory is not on the same computer as Wise Package Studio, see [Upgrading an Unsupported Wise Package Studio Configuration](#) on page 19.

Environment	Share Point Location
Single user installing Professional Edition	Local or network directory.
Team, sharing project files, and installing Professional Edition or Enterprise Management Server	Shared network directory accessible to team members. In a large enterprise with multiple teams, each team might use a different share point directory and Wise Software Repository.

When the share point directory is on a shared network drive, all users in a workgroup must specify the same share point directory during installation. This lets all users access the same packages and data.

How is the Share Point Directory Created?

- During the initial Wise Package Studio server installation, the share point directory is created and shared by the Wise Repository Manager.
- During a client installation, a new share point directory is not created. Instead, you must specify the share point directory that was configured during the server installation.
- During creation of a new Wise Software Repository, the share point directory is created and shared by the Wise Repository Manager.

Configuration Best Practices

➤ *Professional Edition only.*

Installing Wise Package Studio - Standard Edition is relatively simple; it can be installed in one basic configuration only and typically is installed by a single user on their local computer.

When you install Wise Package Studio - Professional Edition in a multi-user environment, you have several options for configuring the installation. This section describes the configurations that are supported. Review these configurations before you install Wise Package Studio.

One important change from previous versions is that the share point directory must reside on the same computer as the Wise Package Studio application files. Versions of Wise Package Studio earlier than 6.0 did not enforce this. If you are upgrading to 6.0 or later, and your share point directory is not on the same computer as Wise Package Studio, see [Upgrading an Unsupported Wise Package Studio Configuration](#) on page 19.

See:

[Dedicated Servers Configuration](#)

[Dedicated SQL Server Configuration](#) (page 15)

[Single Server Configuration](#) (page 16)

[Additional Wise Package Studio Configurations](#) (page 17)

[Upgrading an Unsupported Wise Package Studio Configuration](#) (page 19)

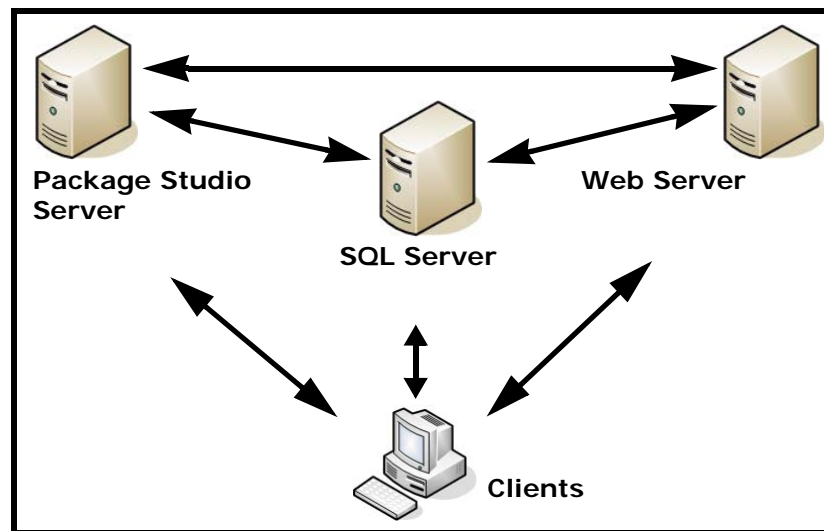
Dedicated Servers Configuration

➤ *Professional Edition only.*

Recommended environment:

- Medium to large packaging teams in multiple locations.
- Large number of users connecting at one time.
- Teams using Preflight Deployment (requires the Quality Assurance module).

Locate the Web Server as close as possible to the end user desktops on which preflight packages will be run.



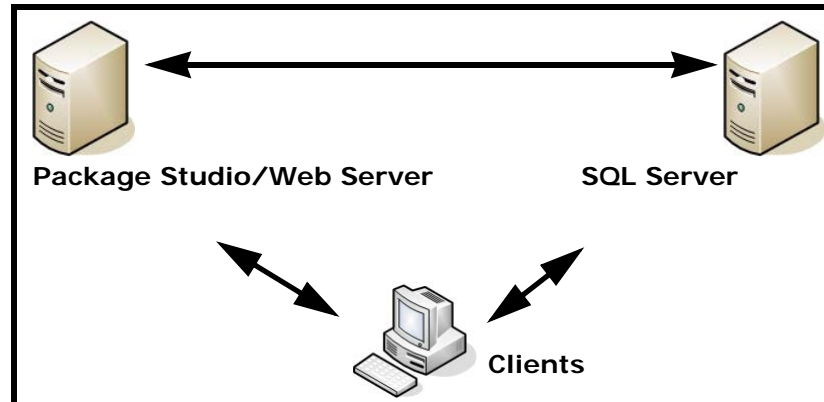
Computer	What to Install
Dedicated Wise Package Studio Server	<ul style="list-style-type: none"> • Wise Package Studio server • Share point directory
Dedicated SQL Server	<ul style="list-style-type: none"> • SQL Server • Wise Package Studio databases
Dedicated Web Server	<ul style="list-style-type: none"> • IIS • ASP • ASP.NET • ISAPI extensions • Wise Web applications
Clients	Wise Package Studio client

Dedicated SQL Server Configuration

➤ *Professional Edition only.*

Recommended environment:

- Medium to large packaging teams in a single location.
 - Teams not using Preflight Deployment.
- Locate the Web server as close as possible to the clients.



Computer	What to Install
Wise Package Studio/ Web Server	<ul style="list-style-type: none"> • Wise Package Studio server • Share point directory • IIS • ASP • ASP.NET • ISAPI extensions • Wise Web applications
Dedicated SQL Server	<ul style="list-style-type: none"> • SQL Server • Wise Package Studio databases
Clients	Wise Package Studio client

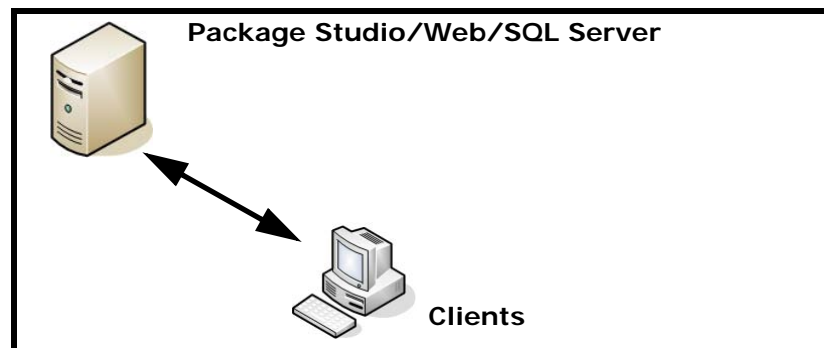
Single Server Configuration

➤ *Professional Edition only.*

Small Team

Recommended environment:

- Single, small team (1 to 5 packagers).
- Managing 500 or fewer applications.
- Team not using Preflight Deployment.



Computer	What to Install
Dedicated Server	<ul style="list-style-type: none"> • Wise Package Studio server • Share point directory • SQL Server (for client support) or MSDE (local computer use, non-client support) • Wise Package Studio databases • IIS • ASP • ASP.NET • ISAPI extensions • Wise Web applications
Clients	Wise Package Studio client

Single User

Recommended environment: Single user with no expected growth. This configuration is not scalable.



Computer	What to Install
Dedicated Server	<ul style="list-style-type: none"> • Wise Package Studio server • Share point directory • SQL Server (for client support) or MSDE (local computer, non-client support) • Wise Package Studio databases • IIS • ASP • ASP.NET • ISAPI extensions • Wise Web applications
Clients	no clients

Additional Wise Package Studio Configurations

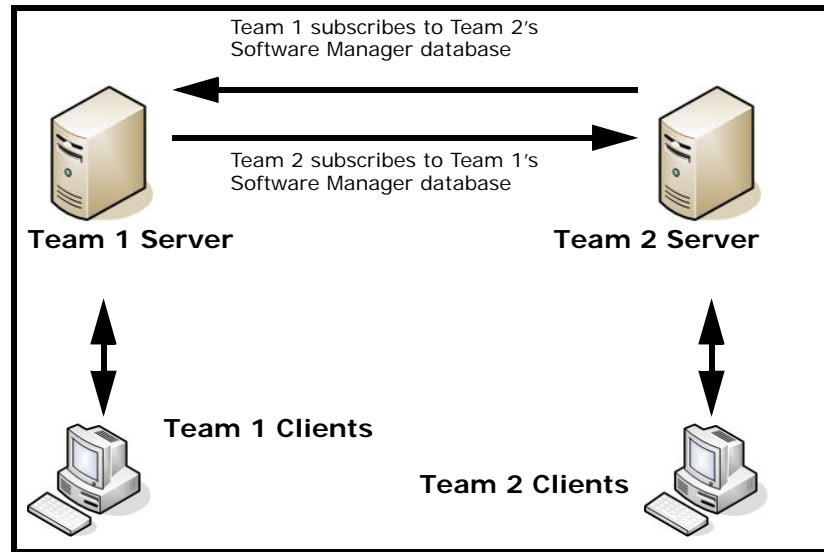
➤ *Professional Edition only.*

After you have determined which of the supported Wise Package Studio configurations is best for your environment, decide whether you need to support multiple Wise Software Repositories or databases.

Multiple Wise Software Repositories

In a large enterprise with multiple teams, each team might use a different share point directory and Wise Software Repository. Because a Wise Package Studio server can be associated with only one active repository at a time, each team must install their repository on a different server.

With Enterprise Management Server, members of one team can subscribe to packages in a Software Manager database that is managed by another team. In the example below, each team has subscribed to packages in the other team's Software Manager database.

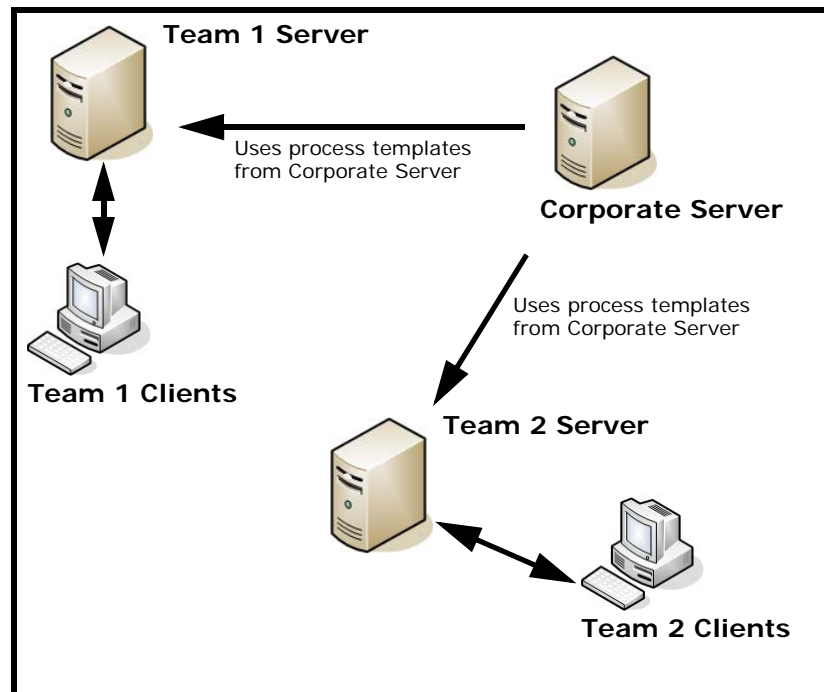


Note

For ease of illustration, the single server configuration is shown. This concept also works with the other recommended Wise Package Studio configurations.

Additional Workbench Database

With Enterprise Management Server, you can maintain an additional, external Workbench database containing customized processes. Users creating new projects can connect to an external database and use its process templates. This lets you maintain process templates in a single database that can be distributed across departments or regions.



Note

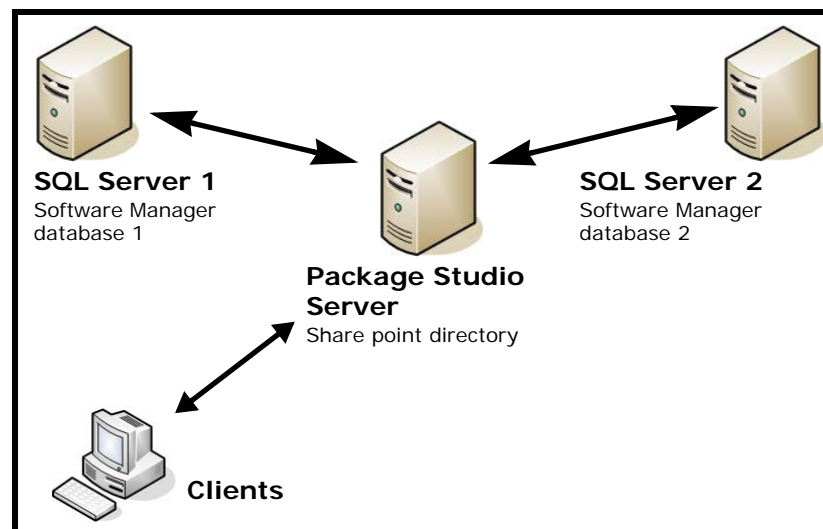
For ease of illustration, the single server configuration is shown. This concept also works with the other recommended Wise Package Studio configurations.

Multiple Software Manager Databases

You might want to use multiple Software Manager databases in these instances:

- If you import a large number of applications for a large organization, you can use multiple databases to reduce the database size.
- If you are repackaging for multiple operating systems, you can use a separate database for each target operating system.
- If your organization has multiple, decentralized departments, each using a different set of packages, you can use a separate database for each department. This concept is similar to using package groups, but on a larger scale.

Each database should reside on its own server. Running multiple databases on a single server degrades performance. In addition, you cannot run the Wise scheduled tasks, which import packages and refresh package subscriptions on a server-based installation, on more than one database on a single computer.

**Upgrading an Unsupported Wise Package Studio Configuration**

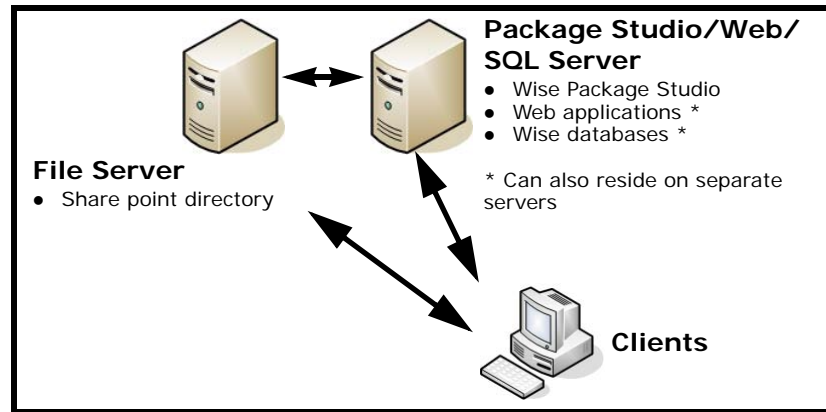
➤ *Professional Edition only.*

Although it was not recommended, previous versions of Wise Package Studio allowed the share point directory and the Wise Package Studio installation to be on different servers. With the release of Wise Package Studio 6.0, this configuration is not supported because the Wise Task Manager, a server-side service, requires the share point directory and the Wise Package Studio installation to be on the same server.

If you currently have this configuration, you cannot simply move the share point directory. Instead:

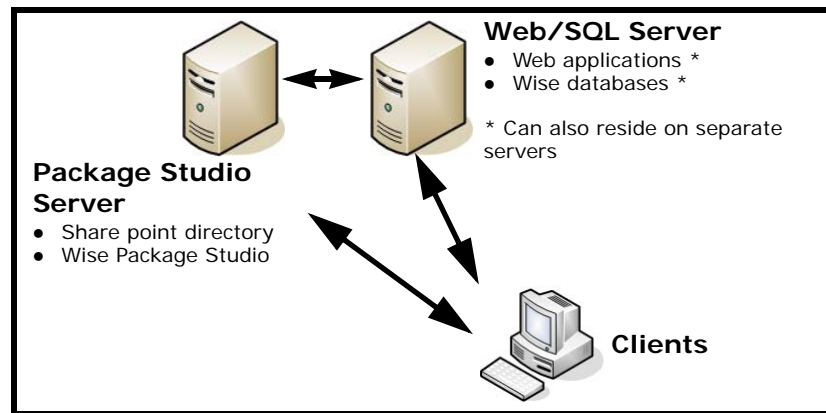
1. Install Wise Package Studio server on the computer that contains the share point directory. The server installation does not use up a license unless someone actually uses Wise Package Studio on that computer.
2. On each client computer, access the Workbench Preferences dialog > Repository tab and verify that the share point directory on the new Wise Package Studio server is specified.

Before



After

Wise Package Studio server is on the computer that contains the share point directory. The Wise Package Studio clients use the share point directory on the new Wise Package Studio server.



Authentication Best Practices

For each Wise Package Studio database (Workbench, Software Manager, and Wise Services), you can:

- Specify the logon information for a database administrator (DBA).
- Define how user names and passwords should be validated:

You can use either SQL Server or Windows NT authentication.

Environment	Authentication Method
Client users have local NT accounts.	SQL Server only (recommended).
Client users have a domain account on the SQL server, and have read and write permissions.	Windows NT or SQL Server.

If you have installed SQL Server or MSDE with NT authentication only, the Wise Task Manager, which manages operations on the Wise Package Studio server, will not work. Therefore, during the Wise Package Studio database configuration, the authentication method is changed to mixed mode (NT and SQL). If you have any questions about how this change affects SQL Server security, ask your database administrator.

(Quality Assurance module only.) For best results with the Preflight Deployment feature, use Windows NT authentication for the Wise Services database.

Chapter 2

Installing Wise Package Studio

Wise Package Studio is comprised of several software components. Before you install Wise Package Studio, refer to the information in this section to learn about the product configurations and options that will meet your requirements.

Topics include:

- [Installation Options](#)
- Instructions for installing the various configurations of Wise Package Studio:
 - [Installing the Standard Edition](#)
 - [Installing the Professional Edition, Server](#)
 - [Installing the Professional Edition, Client](#)
 - [Installing Web Applications](#)
- [Starting Wise Package Studio](#)
- [Registering Your Software](#)
- [Converting an Evaluation Version to a Production Version](#)

Installation Options

You can install different configurations of Wise Package Studio.

Standard Edition

Consists of the Workbench interface and tools for package creation. The Standard Edition can be installed in one basic configuration only. It typically is installed by a single user on their local computer. See [Installing the Standard Edition](#) on page 24.

Professional Edition

Consists of the Workbench interface and tools for package creation, management, and and conflict resolution. It also includes the Altiris Software Virtualization Agent (SVS Agent). You can install Wise Package Studio Professional Edition in several different configurations and purchase additional modules that extend its functionality: Quality Assurance, Enterprise Management Server.

The Professional Edition has 3 installation types:

- **Server**
The server installation includes the share point directory and the Wise Package Studio databases.

In a single-user environment, you can install the Professional Edition on your local computer. In effect, your local computer is the server. We recommend that you do this only if you do not plan to add users in the future.

In the more typical group environment, you run the server installation on a shared network location. Then, you run the client installation on individual users' computers.

See [Installing the Professional Edition, Server](#) on page 25.

- **Client**

The client installation uses the share point directory and Wise Package Studio databases that are installed on the server. In a client installation, you can install the Wise Package Studio program files on the client computer, or install shortcuts and support files that connect to the Wise Package Studio program files that are installed on the server.

See [About the Wise Package Studio Client Installation](#) on page 28 and [Installing the Professional Edition, Client](#) on page 28.

- **Web**

The Web option appears only if Internet Information Services (IIS) is installed and if you enter a serial number for at least one product that includes a Web application (Professional Edition, Quality Assurance, or Enterprise Management Server).

Wise Package Studio Web applications are:

- **Management Reports**

Requires an Enterprise Management Server or bundle serial number. This lets managers use a Web interface to view management reports stored in the Software Manager database without having installed any Wise Package Studio software on their computers.

- **Preflight Data Collector and Preflight Data Analysis**

Requires a Quality Assurance or bundle serial number. These applications are part of the Preflight Deployment feature and are used for evaluating installations.

- **Wise Web Capture**

Requires a Professional Edition serial number. This lets repackagers capture installations on a clean machine without installing any additional software.

See [Installing Web Applications](#) on page 32.

Enterprise Management Server Module

Installs components needed for project management, viewing reports, accessing multiple databases, and automatically importing package information. Includes user and group-based security, which can be integrated with NT authentication. It includes Management Reports.

This module can be installed only with Wise Package Studio - Professional Edition. Enter an Enterprise Management Server or bundle serial number during installation, or through User Licensing Setup in Workbench after installation.

Quality Assurance Module

Installs these quality assurance tools: Test Expert and Package Instrumentation. It also adds the ability to create new validation modules and validation rules in Package Validation.

This module can be installed only with Wise Package Studio - Professional Edition. Enter a Quality Assurance or bundle serial number during installation, or through User Licensing Setup in Workbench after installation.

Wise Package Studio Upgrade

To upgrade from a previous version of Wise Package Studio:

1. Back up the existing share point directory and Wise Package Studio databases.
2. Run the installation and, on the User Information dialog, enter a new serial number and the previous version serial number.

The installation uninstalls the previous version of Wise Package Studio and installs the new version. It does not delete the existing share point directory, Wise Package Studio databases, or settings.

3. After the installation finishes, open the Wise Repository Manager to upgrade the share point directory and databases. See [Upgrading Databases](#) on page 42.

Installing the Standard Edition

The Standard Edition consists of the Workbench interface and tools for package creation. The Standard Edition can be installed in one basic configuration only. It typically is installed by a single user on their local computer.

For help during installation, click the Help button on any dialog.

Note

The Wise Package Studio installation is run from an .EXE that installs Wise Package Studio and, in the Professional Edition, the Altiris Software Virtualization Agent. During installation, the Wise Package Studio .MSI file is extracted to \Program Files\Altiris\Setup Files\Wise Package Studio. The Software Virtualization Agent .MSI file is extracted to \Program Files\Altiris\Setup Files\Software Virtualization Solution. Do not delete these files because they are needed for future repairs.

Starting the Installation

1. Close any other applications that are running.
2. Start the installation program:
 - From a downloaded file: double-click the installation file.
 - From the product CD:

When you insert the product CD, a Welcome dialog appears. Click the button that installs Wise Package Studio. If the Welcome dialog does not appear, use Windows Explorer to browse to the CD, then open the file named Autoplay.exe.
3. On the Welcome dialog, click Next.
4. On the License Agreement dialog, read the license terms, mark **I accept the License Agreement**, and click Next. If you do not accept the license agreement, you cannot continue the installation.
5. Complete the User Information dialog:
 - **Serial Numbers**

Click Add to display a dialog on which you can enter the serial number.

 - ◆ **Serial Number**

Enter a serial number for the Standard Edition.

- ◆ **Previous Serial Number**

If you are upgrading from a previous version of Wise Package Studio, enter the serial number for the previous version. If you don't know the previous version serial number, open Wise Package Studio and select Help menu > About. The serial number appears on the About dialog.

- **Install Evaluation Version**

Mark this to install an evaluation version without a serial number.

- **Full Name, Organization**

Enter this identifying information.

6. Complete the remaining dialogs, which are described below.

Wise Package Studio Evaluation dialog

This dialog appears only when you mark the **Install Evaluation Version** checkbox on the User Information dialog.

Mark the option for the edition of Wise Package Studio to install. If you install the Professional Edition, you can also mark options to include the Enterprise Management Server module and the Quality Assurance module.

Wise Package Studio Directory dialog

In **Destination Directory**, specify where to install the Wise Package Studio application files.

Ready to Install the Application dialog

Click Next to start installing.

Final dialog

When the installation finishes, a dialog indicates that the installation has been completed successfully.

On the final dialog, click Finish to exit the installation.

If you are prompted to restart your computer, do so.

Installing the Professional Edition, Server

The Professional Edition consists of the Workbench interface and tools for package creation, management, and conflict resolution. The server installation includes the share point directory and the Wise Package Studio databases.

For help during installation, click the Help button on any dialog. For configuration recommendations, see [Configuration Best Practices](#) on page 12.

Before the Installation

Ensure that SQL Server or MSDE is running on the computer on which you will install the Wise Package Studio databases.

If you are upgrading from a previous version of Wise Package Studio, back up the existing share point directory and Wise Package Studio databases.

Note

The Wise Package Studio installation is run from an .EXE that installs Wise Package Studio and, in the Professional Edition, the Altiris Software Virtualization Agent. During installation, the Wise Package Studio .MSI file is extracted to \Program Files\Altiris\Setup Files\Wise Package Studio. The Software Virtualization Agent .MSI file is extracted to \Program Files\Altiris\Setup Files\Software Virtualization Solution. Do not delete these files because they are needed for future repairs.

Starting the Installation

1. Close any other applications that are running.
2. Start the installation program:
 - From a downloaded file: double-click the installation file.
 - From the product CD:

When you insert the product CD, a Welcome dialog appears. Click the button that installs Wise Package Studio. If the Welcome dialog does not appear, use Windows Explorer to browse to the CD, then open the file named Autoplay.exe.
3. On the Welcome dialog, click Next.
4. On the License Agreement dialog, read the license terms, mark **I accept the License Agreement**, and click Next. If you do not accept the license agreement, you cannot continue the installation.
5. Complete the User Information dialog:
 - **Serial Numbers**

Click Add to display a dialog on which you can enter the serial number.

 - ◆ **Serial Number**

Enter a serial number for the Professional Edition. Also enter serial numbers for any additional modules that you might have purchased (Quality Assurance and Enterprise Management Server).
 - ◆ **Previous Serial Number**

If you are upgrading from a previous version of Wise Package Studio, enter the serial number for the previous version. If you don't know the previous version serial number, open Wise Package Studio and select Help menu > About. The serial number appears on the About dialog.
 - **Install Evaluation Version**

Mark this to install an evaluation version without a serial number.
 - **Full Name, Organization**

Enter this identifying information.
6. Complete the remaining dialogs, which are described below.

Wise Package Studio Evaluation dialog

This dialog appears only when you mark the **Install Evaluation Version** checkbox on the User Information dialog.

Mark the option for the edition of Wise Package Studio to install. If you install the Professional Edition, you can also mark options to include the Enterprise Management Server module and the Quality Assurance module.

Select Installation Type dialog

Mark **Server**.

Wise Package Studio Directory dialog

In **Destination Directory**, specify where to install the Wise Package Studio application files.

User Account for Wise Server-Side Service dialog

Wise Package Studio contains a service that lets users on a client computer perform certain operations on the Wise Package Studio server. This user account lets the service access information it needs to perform these operations. Also, this user account becomes the Wise Package Studio server administrator; to use the Wise Repository Manager, you must be logged on as this user.

Note

This account is based on the NT account of the currently logged on user. If you prefer to run the Wise service under a different account, then cancel the installation, log on with that account, and restart the installation.

- **User**
(Read-only.) This defaults to the currently logged on user. It is the same as your Windows NT login.
- **Password**
Enter the password of the currently logged on user.

If this password changes, you must change it in the Wise Repository Manager. See [Setting the Wise Service Account](#) on page 48.

Web Applications dialog

Availability of the following options depends on the serial numbers you entered, whether IIS is installed, and whether the requirements for Web applications have been met.

- **Destination Directory**
Specify where to install files for Wise Package Studio Web applications.
- **Management Reports**
(Enterprise Management Server only.) This lets managers use a Web interface to view management reports that are stored in the Software Manager database without having installed any Wise Package Studio software on their computers.
- **Preflight Data Collector and Preflight Analysis**
(Quality Assurance only.) These applications are part of the Preflight Deployment feature and are used for evaluating installations.
- **Wise Web Capture**
This lets repackagers capture installations on a clean machine without adding any additional software.

If you do not install Web applications now, you can install them later. See [Installing Web Applications](#) on page 32.

Also see [Web Applications Requirements](#) on page 9.

Ready to Install the Application dialog

Click Next to start installing.

When the Installation Finishes

When the Wise Package Studio installation finishes, the Altiris Software Virtualization Agent is installed if necessary. If the agent is already installed but the version is earlier than what Wise Package Studio requires, it is updated.

If you are prompted to restart your computer, do so.

What to Do Next

- Before you can use Wise Package Studio, you must configure the repository. See [Configuring the Wise Software Repository](#) on page 41.
- If you need to add licenses after the installation is finished, use User Licensing Setup in Workbench. See *License Management* in the Wise Package Studio Help.

About the Wise Package Studio Client Installation

➤ *Not available in Standard Edition.*

In a client-server configuration, you perform a Wise Package Studio server installation on one computer that is designated the *Wise Package Studio server*, and then you perform a Wise Package Studio client installation on multiple client computers. During the client installation, Microsoft Data Access Components (MDAC) 2.6 SP2 is installed to allow connections to the remote databases.

You can perform a client installation silently from the command line. See [Installing Wise Package Studio Client Silently](#) on page 31.

Two client installations are available: Local and Network. You can use both the Local and Network client installation among members of the same team; the only requirement is that all users designate the same share point directory.

Local Client

This installs a fully functional version of Wise Package Studio on the client computer. Do this when network bandwidth is limited.

Network Client

This is a quick and small installation for repackagers who re-image their computers frequently. It installs only the registry settings, .INI files, ODBC data source connections, and shortcuts necessary to run the Wise Package Studio applications from the packaging server. It also installs MDAC, DAO runtime, MFC support files, Test Expert support files, and the Windows Installer runtime.

Why use the Network Client configuration?

- It minimizes changes to the client computers for repackaging.
- It simplifies and speeds installation on client computers.
- It is easier to upgrade and maintain.

Installing the Professional Edition, Client

The client installation uses the share point directory and Wise Package Studio databases that are installed on the server. In a client installation, you can install the Wise Package

Studio program files on the client computer, or install shortcuts and support files that connect to the Wise Package Studio program files that are installed on the server.

You can perform a client installation silently from the command line. See [Installing Wise Package Studio Client Silently](#) on page 31.

For help during installation, click the Help button on any dialog. For configuration recommendations, see [Configuration Best Practices](#) on page 12.

Before the Installation

- Verify that a Wise Package Studio server installation was performed on the server that the client will connect to.
- Verify that the Wise Software Repository was configured.
- If you will perform a Network Client installation, share the Wise Package Studio application directory that was specified during the server installation.

Note

The Wise Package Studio installation is run from an .EXE that installs Wise Package Studio and, in the Professional Edition, the Altiris Software Virtualization Agent. During installation, the Wise Package Studio .MSI file is extracted to \Program Files\Altiris\Setup Files\Wise Package Studio. The Software Virtualization Agent .MSI file is extracted to \Program Files\Altiris\Setup Files\Software Virtualization Solution. Do not delete these files because they are needed for future repairs.

Starting the Installation

1. Close any other applications that are running.
2. Start the installation program:
 - From a downloaded file: double-click the installation file.
 - From the product CD:

When you insert the product CD, a Welcome dialog appears. Click the button that installs Wise Package Studio. If the Welcome dialog does not appear, use Windows Explorer to browse to the CD, then open the file named Autoplay.exe.
3. On the Welcome dialog, click Next.
4. On the License Agreement dialog, read the license terms, mark **I accept the License Agreement**, and click Next. If you do not accept the license agreement, you cannot continue the installation.
5. Complete the User Information dialog:
 - **Serial Numbers**

Click Add to display a dialog on which you can enter the serial number.

 - ◆ **Serial Number**

Enter a serial number for the Professional Edition. Also enter serial numbers for any additional modules that you might have purchased (Quality Assurance and Enterprise Management Server).

You cannot use an evaluation serial number for the client installation if you used a production serial number for the server installation.
 - ◆ **Previous Serial Number**

If you are upgrading from a previous version of Wise Package Studio, enter the serial number for the previous version. If you don't know the previous

version serial number, open Wise Package Studio and select Help menu > About. The serial number appears on the About dialog.

- **Install Evaluation Version**
Mark this to install an evaluation version without a serial number.
- **Full Name, Organization**
Enter this identifying information.

6. Complete the remaining dialogs, which are described below.

Wise Package Studio Evaluation dialog

This dialog appears only when you mark the **Install Evaluation Version** checkbox on the User Information dialog.

Mark the option for the edition of Wise Package Studio to install. If you install the Professional Edition, you can also mark options to include the Enterprise Management Server module and the Quality Assurance module.

Select Installation Type dialog

Mark **Client**.

Wise Package Studio Client Selection dialog

- **Local Client**
Installs a fully functional version of Wise Package Studio on the client computer and connects to the Wise Software Repository on the server.
- **Network Client**
Installs shortcuts and support files that connect to a server installation of Wise Package Studio.

Wise Share Point Directory dialog

Specify the share point directory that was configured during the server installation. Enter a shared network location in UNC (recommended) or mapped drive notation. (Example of UNC: \\SERVER_NAME\WISE SHARE POINT.)

In a large enterprise with multiple teams, each team might have a different share point directory and Wise Software Repository. After installation, you can change the repository that a client installation connects to. See *Setting Repository Preferences* in the Wise Package Studio Help.

Wise Package Studio Directory dialog

- Local client: Specify a directory on your computer. The Wise Package Studio files will be installed there.
- Network client: Specify the same Wise Package Studio directory that was specified during the server installation. Use UNC (recommended) or mapped drive notation. (Example of UNC: \\SERVER_NAME\WISE PACKAGE STUDIO.) Shortcuts and support files that connect to that location will be installed on your computer.

Ready to Install the Application dialog

Click Next to start installing.

When the Installation Finishes

When the Wise Package Studio installation finishes, the Altiris Software Virtualization Agent is installed if necessary. If the agent is already installed but the version is earlier than what Wise Package Studio requires, it is updated.

If you are prompted to restart your computer, do so.

Adding Licenses After Installation

If you need to add licenses after the installation is finished, use User Licensing Setup in Workbench. See *License Management* in the Wise Package Studio Help.

Installing Wise Package Studio Client Silently

➤ *Not available in Standard Edition.*

You can install the Wise Package Studio client silently from the command line, using the following Windows Installer command line options with the installation .MSI. During the server installation, the .MSI is extracted to \Program Files\Altiris\Setup Files\Wise Package Studio.

Option	Description
/i	Installs the product.
/qn	Runs the installation with no user interface (silent installation).
/qb	Runs the installation with a basic user interface.

These options are described in the Windows Installer SDK Help, which is included in Windows Installer Editor.

Silent Installation Properties

Property	Value
SERIALS	One or more valid serial numbers. To specify multiple serial numbers, delimit them with the pipe () character. Example: AAAA-BBBB-CCCC-DDDD EEEE-FFFF-GGGG-HHHH
MODE	Client
CLIENT	<ul style="list-style-type: none"> • Local • Network
SHAREPOINT	Valid path to the share point directory.
WPSDIR	Valid path where the Wise Package Studio application files should be installed. For a Network Client installation, specify the same Wise Package Studio directory that was specified during the server installation.

Silent installations do not validate the share point directory or Wise Package Studio directory. Be sure to specify valid paths in the command line.

Installing the Altiris Software Virtualization Agent Silently

Wise Package Studio requires the Altiris Software Virtualization Agent (SVS Agent). Therefore, if you install the Wise Package Studio client silently, you must include a command line that will install the SVS Agent.

When the SVS Agent installation finishes, a reboot occurs. This is required for Wise Package Studio and the SVS Agent to function properly.

Obtain the registration key for the SVS Agent from your server installation of Wise Package Studio. On the server, select Start > Settings > Control Panel > Altiris SVS. The registration key appears on the About tab of the Altiris SVS applet.

- Use the following command line when the Altiris Software Virtualization Agent is not already installed on the client computer.

```
msiexec.exe /qn /i "<PATH to Software_Virtualization_Agent.msi>"
PRODUCT_KEY=<registration key>
```

Warning

If you use the above command line on a computer that has the SVS Agent installed, it will uninstall the existing agent and delete all layers. If the SVS Agent is already installed on the computer, use the following command line instead.

- Use the following command line when the Altiris Software Virtualization Agent is installed on the client computer. This command line updates the existing installation of the agent.

```
msiexec.exe /qb- /fvamus <PATH to Software_Virtualization_Agent.msi>
PRODUCT_KEY=<registration key>
```

Example

The following command lines perform a silent, Network Client installation of Wise Package Studio and the Altiris Software Virtualization Agent. In this example, the client computer does not have the SVS Agent installed.

```
msiexec.exe /i "C:\WPS_7_00.msi" SERIALS="AAAA-BBBB-CCCC-DDDD"
MODE="Client" CLIENT="Network" SHAREPOINT="\\Server_Name\Wise Share Point\"
WPSDIR="\\Server_Name\Wise Package Studio\" /qn

msiexec.exe /qn /i "<PATH to Software_Virtualization_Agent.msi>"
PRODUCT_KEY=<registration key>
```

Also see [About the Wise Package Studio Client Installation](#) on page 28.

Installing Web Applications

➤ *Not available in Standard Edition.*

Wise Package Studio Web applications are: Management Reports; Preflight Data Collector and Preflight Data Analysis; and Wise Web Capture.

Installing a Web application consists of creating a virtual directory for that Web application. The Web applications must be installed on a Microsoft Internet Information Services (IIS) Web server on your network. You must also ensure that the other requirements for the Web applications have been met. (See [Web Applications Requirements](#) on page 9.)

You can install Web applications on the server that contains Wise Package Studio (the Wise Package Studio server), or on a different server.

Options for Installing Web Applications

When will you install the Web applications?	Where will you install the Web application?	How to install the Web applications
During the initial installation	On the Wise Package Studio server (this configuration is typical for a single user or small group)	See Installing the Professional Edition, Server on page 25.
After the initial installation	On the Wise Package Studio server	Install Web applications from Add/Remove Programs (see details below).
After the initial installation	On a server with no Wise Package Studio programs or Web applications	Install Web applications from the installation (see details below).
After adding a new license number for Quality Assurance or Enterprise Management Server in Workbench	On the Wise Package Studio server or any other server that contains a Wise Package Studio Web application	Install Web applications from Add/Remove Programs (see details below).
After adding a new license number for Quality Assurance or Enterprise Management Server in Workbench	On a server with no Wise Package Studio programs or Web applications	Install Web applications from the installation (see details below).

Also see [Configuration Best Practices](#) on page 12.

To install Web applications from the installation:

1. Run the Wise Package Studio installation. (For detailed instructions, see [Installing the Professional Edition, Server](#) on page 25.)
2. On the User Information dialog, enter the Professional serial number you used for the original server installation. If necessary, enter any other serial numbers that are associated with the Web application you are installing (Quality Assurance, Enterprise Management Server).
3. On the Select Installation Type dialog, mark **Web**.
4. On the Wise Share Point Directory dialog, specify the share point directory that was configured during the server installation. If you specified a mapped drive during the

initial configuration, then specify a mapped drive here. Otherwise, use UNC notation. (Example of UNC: \\SERVER_NAME\WISE SHARE POINT)

5. On the Web Applications dialog, mark the checkboxes for the Web applications you are installing.
6. Complete the installation.

To install Web applications from Add/Remove Programs:

When you install a Web application on a computer that already contains Wise Package Studio programs or a Wise Package Studio Web application, use Add/Remove Programs. Do not try to run the Wise Package Studio installation because it will perform a repair.

1. Select Start > Control Panel > Add/Remove Programs.
2. On the Add/Remove Programs dialog, click **Wise Package Studio** and click its Change button.

The Wise Package Studio installation starts and the Application Maintenance dialog appears.
3. Mark **Modify** and click Next.
4. The User Information dialog displays the serial number or numbers for the existing installation. Accept the default serial numbers. If necessary, enter any other serial numbers that are associated with the Web application you are installing (Quality Assurance, Enterprise Management Server).
5. On the Web Applications dialog, mark the checkboxes for the Web applications you are installing.
6. Complete the installation.

Starting Wise Package Studio


1. Select Start menu > Programs > Altiris > Wise Package Studio > Wise Package Studio.
2. If the Wise Package Studio Logon dialog appears, log on as instructed by your Wise Package Studio administrator. For details, see [Wise Package Studio Logon Options](#). (Not available in Standard Edition.)

If you cannot log on, one or more dialogs might appear. For details, see [If Your Logon Fails](#).

3. Click OK.

The first time you start Wise Package Studio, Workbench opens to the Projects tab. The Standard Edition opens a project named Sample Project; the Professional Edition opens the Initial Workbench Setup project.

If Your Logon Fails

 *Not available in Standard Edition.*

You cannot log on to Wise Package Studio if:

- You have not configured the Wise Software Repository in the Wise Repository Manager. See [Configuring the Wise Software Repository](#) on page 41.

- You have not been assigned a Wise Package Studio license.
 - If a serial number is available, you might be assigned a serial number automatically. If not, the Assign User Licensing dialog appears. Mark one or more checkboxes for the licenses to assign.
With Enterprise Management Server, you cannot be assigned a serial number automatically. The Wise Package Studio administrator must assign licenses.
 - If a serial number is not available, the Add Serial Number dialog appears.
 - If you entered a user name from a Windows NT account, and Security Setup does not contain a security group that matches the domain group you belong to, you are prompted to contact your Wise Package Studio administrator. (Enterprise Management Server only.)

Wise Package Studio Logon Options

➤ *Not available in Standard Edition.*

When a user starts Wise Package Studio, the Wise Package Studio Logon dialog appears. Obtain your logon information from your Wise Package Studio administrator; it will be one of the following options:

Workbench Logon

This is defined when you are assigned a Wise Package Studio license.

When to use:

- When the user does not have an Enterprise Management Server license.
- When the computer is not connected to a Windows NT domain. Example: using Wise Package Studio on a lab computer.

What to enter on the Wise Package Studio Logon dialog:

- User name from User Licensing Setup or, with Enterprise Management Server, from Security Setup.
- Password from Security Setup. (Enterprise Management Server only.)
- Select **(Workbench Database)** in **Use Security From**.
- Clear **Always Use Current Network Login**.

Current Windows NT Logon

(Enterprise Management Server and Windows NT environments only.)

When to use: To log on to Wise Package Studio as the currently logged-on Windows NT user.

What to enter on the Wise Package Studio Logon dialog:

- Mark **Always Use Current Network Login** and leave the remaining fields blank.
When the user starts Wise Package Studio in the future, they will be logged on automatically.

Windows NT Account

(Windows NT environments only. The Workbench database must contain at least 1 Enterprise Management Server license.)

When to use: To log on to Wise Package Studio with a Windows NT account. This account can be different from the one that is currently logged on to Windows. This lets users log on to Wise Package Studio from someone else's computer or from a remote computer. The computer must have Wise Package Studio installed.

What to enter on the Wise Package Studio Logon dialog:

- Windows NT user name from the Windows NT domain.
- Password from the Windows NT domain.
- Select the Windows NT domain name in **Use Security From**.
- Clear **Always Use Current Network Login**.

Note

When a user logs on with a Windows NT account, or when they use the current network logon, Security Setup must contain a security group whose name matches a valid group in the NT domain, and the user must be defined in that domain group. If a user is in multiple NT groups, they are logged on under the first valid group encountered.

Registering Your Software

It is very important that to your software. Registering qualifies you to receive technical support via newsgroups and e-mail, plus notifications about future product upgrades. To register:

1. Connect to the Internet.
2. Do either of the following:
 - In Workbench, select Help menu > Wise on the Web > On-Line Registration.
 - In your browser, go to www.wise.com/product_registration.asp.
Your browser opens to the Product Registration page on the Wise Web site.
3. Click the Wise Technical Support Center link on the Web page and create a new user profile or log onto an existing user profile.
4. Follow the instructions on the Web page to complete the registration.

Converting an Evaluation Version to a Production Version

You can convert an evaluation version of Wise Package Studio to a production version without uninstalling the product.

1. Purchase the product and obtain a production serial number.
2. Start Wise Package Studio.
 - If the evaluation period has not expired, then when the Wise Package Studio Evaluation dialog appears, click Serial Number. The Add Serial Number dialog appears.
 - If the evaluation period has expired, and a production serial number is not available, the Add Serial Number dialog appears.

- If the evaluation period has expired, and a production serial number is available, you are assigned a serial number and logged on.

This happens when someone adds production serial numbers to an evaluation version of Wise Package Studio. In that case, all evaluation licenses expire.

3. On the Add Serial Number dialog, enter a production serial number and click OK.

The evaluation version is converted to a production version. The next time you start Wise Package Studio, the evaluation dialog no longer appears.

Chapter 3

Managing the Wise Software Repository

➤ *Not available in Standard Edition.*

The Wise Repository Manager gives you control over database configuration and updates, and lets you see the changes that are made by database updates. The Wise Repository Manager provides a view of the Wise Software Repository and lets you perform the following tasks:

- [Configuring the Wise Software Repository](#), which consists of the Wise share point and the databases that are associated with it.
- [Upgrading Databases](#).
- [Changing Database Settings](#).
- [Creating Software Manager Databases](#).
- [Creating a New Repository](#).
- [Opening a Repository](#) to upgrade it or make it the default.
- [Choosing a Revision Control System](#).
- [Setting the Wise Service Account](#).

The Wise Repository Manager is available on the Wise Package Studio server only.

Procedures in this section assume that you are familiar with creating databases and registering ODBC data sources. We do not offer technical support for MSDE or SQL Server. If you need help, ask your database administrator.

Caution

Do not modify Wise Package Studio databases outside of the Wise Repository Manager.

Additional topics include:

- [About the Wise Software Repository](#).
- [Starting the Wise Repository Manager](#).
- [The Wise Repository Manager Interface](#).
- [Repository Configuration Dialogs](#).

About the Wise Software Repository

➤ *Not available in Standard Edition.*

The Wise Software Repository™ is a collection of software packages, resources and information about those resources, project management information, and quality assurance data used by organizations as part of the repackaging process. This scalable repository provides a centralized point for managing software packages at any stage of deployment.

The Wise Software Repository consists of:

- **Share point directory**
Contains shared Wise Package Studio files and shared resources that are used to create Windows Installer installations. It also contains source files for packages in the Software Manager database. All Wise Package Studio databases are associated with a specific share point directory.
- **Workbench database**
Stores information that Wise Package Studio creates and uses. Examples: project, process, tool, and security information. A repository can contain only one Workbench database.
- **Software Manager database**
Contains all software packages and other resources that are used by an organization. Other resources include: merge modules, device drivers, Group Policy Objects, and standard operating system environment snapshots. A repository can contain multiple Software Manager databases.
- **Wise Services database**
(Formerly named Preflight database.) Stores the following data that is generated and used by Wise services:
 - Tasks that are managed by the Wise Task Manager. Examples: importing packages; running the Merge Modules Wizard; compiling .MSI or .WSI packages in Software Manager; remotely compiling packages in Windows Installer Editor.
 - (Quality Assurance module only.) The results that are generated from deploying preflight packages, which are made with Package Instrumentation. These results are used by the Preflight Data Collector and Preflight Analysis Web applications.

A repository can contain only one Wise Services database.


Multiple Repositories

- In a large enterprise with multiple teams, each team might use a different share point directory and Wise Software Repository. Because a Wise Package Studio server can be associated with only one active repository at a time, each team must install their repository on a different server.
- A single Wise Package Studio server can contain multiple repositories. However, only one repository can be active at a time.

To change the active repository on a Wise Package Studio server, open the repository in the Wise Repository Manager.

A Wise Package Studio client can connect to any Wise Software Repository that it can access. To change a client's default repository, use the Workbench Preferences dialog > Repository tab and specify the share point that is associated with an active Wise Software Repository.

Starting the Wise Repository Manager

 *Not available in Standard Edition.*

Requirements

To use the Wise Repository Manager:

- You must be logged on to a computer that contains a Wise Package Studio server installation.
- You must be logged on as the Wise Package Studio server administrator, that is, the user account under which Wise Package Studio was installed.

To start the Wise Repository Manager:

After Wise Package Studio is installed, select Start menu > Programs > Altiris > Wise Package Studio > Wise Repository Manager.

If the Wise Software Repository has not been configured, the Create New Repository wizard starts.

For details on the Create New Repository wizard, see [Repository Configuration Dialogs](#) on page 45.

Also see:

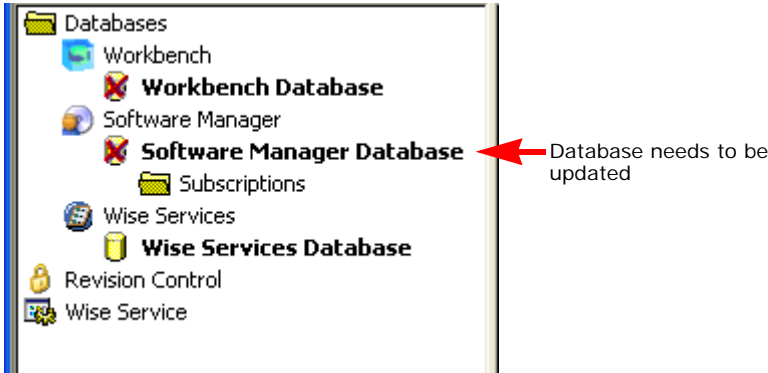
- [The Wise Repository Manager Interface](#) on page 40
- [Configuring the Wise Software Repository](#) on page 41
- [Upgrading Databases](#) on page 42
- [Changing Database Settings](#) on page 43
- [Creating Software Manager Databases](#) on page 44
- [Creating a New Repository](#) on page 44
- [Opening a Repository](#) on page 45
- [Choosing a Revision Control System](#) on page 47
- [Setting the Wise Service Account](#) on page 48

The Wise Repository Manager Interface

➤ *Not available in Standard Edition.*

When the Wise Repository Manager opens, it displays the current repository.

Wise Repository Manager Left Pane



The left pane contains a tree structure that represents:

- The databases that comprise the Wise Software Repository. If the repository contains multiple Software Manager databases, the default is displayed in bold type.

Note

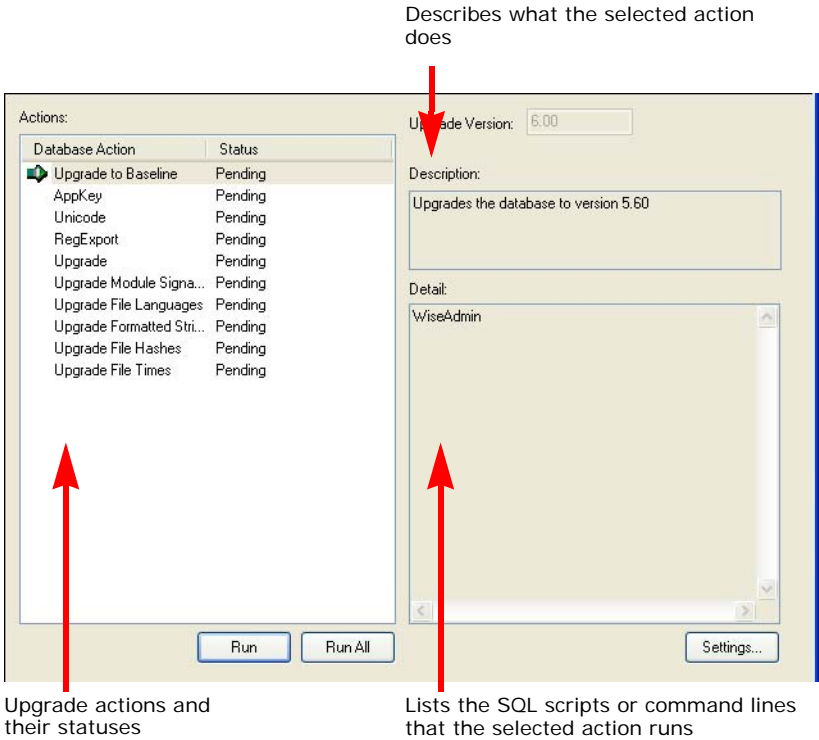
The Subscriptions subfolder displays any databases that are subscribed to from the selected Software Manager database. To manage a subscribed database, open the repository that it is associated with.

- Pages that contain settings for Revision Control and the Wise Service account.

Click the top-level folder or a database icon to display help in the right pane.

Click a specific database (in bold type) to display maintenance options in the right pane.

Wise Repository Manager Right Pane



In the right pane, you can:

- Upgrade the database to a new version. See [Upgrading Databases](#) on page 42.
- Display a record of completed upgrade actions by clicking Show Log on the toolbar.
- Change the database settings. See [Changing Database Settings](#) on page 43.

Configuring the Wise Software Repository

➤ *Not available in Standard Edition.*

After you install or upgrade Wise Package Studio, you must configure the Wise Software Repository. This consists of defining:


- The share point directory.

- The location of the various Wise Package Studio databases.
- The authentication method for each database.

To configure the Wise Software Repository:


1. Access the Wise Repository Manager. See [Starting the Wise Repository Manager](#) on page 39.
If the Wise Software Repository has not been configured, the Create New Repository wizard starts.
2. Step through the Create New Repository wizard. For details, see [Repository Configuration Dialogs](#) on page 45.
3. If you have upgraded from a previous version of Wise Package Studio, upgrade the databases. See [Upgrading Databases](#) on page 42.

Upgrading Databases

 *Not available in Standard Edition.*

When you upgrade Wise Package Studio, you must also upgrade the Wise Package Studio databases before you can use them with the new version. You do this in the Wise Repository Manager.

Do this after you configure the repository with the Create New Repository wizard.

The  icon next to the database name in the left pane indicates that the database must be upgraded before it can be used. When the red X is removed from the icon, you can safely use that database with the current version of Wise Package Studio. This can occur before all upgrade actions have been completed. That is because the upgrade might contain background actions that do not have to be completed before users can begin using Wise Package Studio.

To review the changes that the upgrade will make, click an action in the **Actions** list. Information about what that action does is displayed in the **Description** and **Details** sections. The Upgrade to Baseline action upgrades databases earlier than version 5.6 to a baseline format, from which you can upgrade to 6.0 or any later version. (The baseline version that appears in the action's description does not necessarily correspond to any product version number.)

Note

If you are upgrading a repository that contained multiple Software Manager databases, or if one of the databases had a name other than the default name, register and upgrade those databases separately. See [Registering a Database](#) on page 43.

To upgrade the entire repository:

On the Wise Repository Manager toolbar, click Upgrade.

This upgrades all databases that require upgrading.

To upgrade one database at a time:


1. In the left pane of the Wise Repository Manager, click a database name (in bold type).

2. Do either of the following:
 - To run all uncompleted actions, click Run All.
 - To run the upgrade actions individually, click the first uncompleted action in the list and click Run. (Uncompleted actions are indicated by a status of Pending.) Then repeat for subsequent actions. You cannot run the actions out of sequence.

When the upgrade is complete:

The database or databases are updated, the actions you ran are marked as completed, and a record of the upgrade actions is written to WiseAdmin.log. To display the most recent log, click Show Log on the toolbar.

Registering a Database

 *Not available in Standard Edition.*

Do this when you upgrade a repository that contains multiple Software Manager databases. During the Create New Repository wizard, you can specify only one Software Manager database. Therefore, the other Software Manager databases are not registered.


To register a database:

1. In the left pane of the Wise Repository Manager, click the Software Manager icon.
2. On the toolbar, click Register.

The Select Data Source dialog appears. This is a standard Windows ODBC connection wizard, which lets you connect to a database via an ODBC data source.
3. Connect to the database. If you need help, ask your database administrator.

The database appears in the left pane of the Wise Repository Manager.
4. Upgrade the database. See [Upgrading Databases](#) on page 42.

Changing Database Settings

 *Not available in Standard Edition.*

You can change logon settings for a Wise Package Studio database from the Wise Repository Manager.

1. In the left pane of the Wise Repository Manager, click a database name (in bold type).
2. Click Settings in the lower right of the right pane.

The Change Database Settings wizard starts.
3. Complete the following dialogs:
 - Database Administrator Logon Information dialog
 - Database Service Logon Information dialog

See [Repository Configuration Dialogs](#) on page 45.

Creating Software Manager Databases

➤ *Not available in Standard Edition.*

If you plan to import a large number of packages, you might use multiple Software Manager databases to reduce the size of the individual databases. Use the Wise Repository Manager to create Software Manager databases.

The ability to create a database is disabled for the Workbench and Wise Services databases because a repository can contain only one of each of those databases.

This procedure assumes that you are familiar with creating databases and registering ODBC data sources. We do not offer technical support for MSDE or SQL Server. If you need help, ask your database administrator.

1. In the left pane of the Wise Repository Manager, right-click the Software Manager icon and select Create New Database.

The Create New Database wizard starts.

2. Complete the following dialogs:

- Database Identification dialog
- Database Administrator Logon Information dialog
- Creation Options dialog

See [Repository Configuration Dialogs](#) on page 45.

3. To make this the default Software Manager database, right-click the database name in the left pane and select Set as Default. The default database name is displayed in bold type.

To provide an additional level of security, your database administrator can set permissions on tables in the new Software Manager database. This is not required, but is an option if you are concerned about unauthorized users changing database tables outside of Wise Package Studio. For recommendations, see *Setting Database Security* in the Wise Package Studio Help.

Creating a New Repository

➤ *Not available in Standard Edition.*

When you create a new Wise Software Repository, all links to the old repository are broken, but the data is not deleted. The new repository becomes the default for all Wise Package Studio clients that connect to this server.

1. In the Wise Repository Manager, select File menu > New.

The Create New Repository wizard starts.

2. Complete the dialogs that appear. When you are asked to specify the share point directory, specify a share point path that resides under an existing location. See [Repository Configuration Dialogs](#) on page 45.

The new databases are created and associated with the share point directory you specified.

To provide an additional level of security, your database administrator can set permissions on tables in the new databases. This is not required, but is an option if you

are concerned about unauthorized users changing database tables outside of Wise Package Studio. For recommendations, see *Setting Database Security* in the Wise Package Studio Help.

Opening a Repository

➤ *Not available in Standard Edition.*

In a large enterprise with multiple teams, each team might use a different Wise Software Repository. However, a Wise Package Studio server can be associated with only one active repository at a time. To change the default Wise Software Repository for a server installation, open a new repository.

Note

To change the default repository for a client installation, use the Workbench Preferences dialog > Repository tab and specify the share point that is associated with an active Wise Software Repository. See *Setting Repository Preferences* in the Wise Package Studio Help.

If you upgrade from a previous version of Wise Package Studio that has multiple repositories, only one repository is upgraded. To upgrade the other repositories, you must open them and then upgrade them.

1. In the Wise Repository Manager, select File menu > New.
2. On the Wise Share Point Directory dialog, specify the share point that is associated with the repository you are opening and click Next.
 - If the repository associated with that share point is at the current version, it opens in the left pane.
 - If the repository associated with that share point has not been upgraded, additional dialogs appear. Complete the dialogs to configure the repository, and then upgrade the database. See [Repository Configuration Dialogs](#) on page 45 and [Upgrading Databases](#) on page 42.

Repository Configuration Dialogs

➤ *Not available in Standard Edition.*

All or some of the repository setup dialogs appear when you:

- Configure the repository as part of a new or upgrade installation.
- Change database settings. See [Changing Database Settings](#) on page 43
- Create a new Software Manager database. See [Creating Software Manager Databases](#) on page 44.
- Create a new repository. See [Creating a New Repository](#) on page 44.
- Open an existing repository that has not been upgraded. See [Opening a Repository](#) on page 45.

Wise Share Point Directory dialog

The share point directory stores data that can be shared by team members.

Specify a shared network location. Your entry is converted to UNC notation. This directory is created and shared for you.

If you are creating a new repository after the initial installation, you must specify a share point path that is shared.

Valid paths for a new share point:

C:\Wise Share Point 2
 \\server\c\$\Wise Share Point 2

Invalid path for a new share point: \\server\Wise Share Point 2

Note

When you perform a server installation in a team environment, we recommend that you install the share point directory on the same physical drive that contains the Wise Package Studio application files.

File Share Name dialog

The share point directory must be accessible by other computers. Enter the name of the file share to associate with the share point directory.

Database Identification dialog

When you create a new repository, this dialog appears for each database that you are defining. When you change a database's settings or add a Software Manager database, this dialog appears for that specific database only.

- **Database Name**

Specify the database name to create or connect to. If you are creating an additional database, use a unique name. Example: Software Manager Database 2.

If you are upgrading from a previous version, do not accept the default name if the existing database has a different name. Enter the exact name of the existing database.

Note

If you are upgrading from a version earlier than 6.0, the Wise Services database is named Preflight. The upgrade process will not change this name.

- **Server**

Select the database server for the database you specified.

Database Administrator Logon Information dialog

When you create a new repository, this dialog appears for each database that you are defining. When you change a database's settings or add a Software Manager database, this dialog appears for that specific database only. For recommendations on which authentication method to use, see [Authentication Best Practices](#) on page 20.

Specify the logon information for a database administrator (DBA) for the selected database server:

- **Windows NT authentication using your current logon credentials**

This is the preferred option for the Wise Services database, if you will use the Preflight Deployment feature.

- **SQL Server authentication using a DBA login and password**

When you select this, enter a valid **Logon ID** and **Password**.

Define how user names and passwords should be validated:

- **Windows NT authentication using the user's Windows logon credentials**
- **SQL Server authentication using a logon ID and password supplied by the user**
When you select this, you must create users. Do this on the [Create New Users dialog](#). If users will log on with the DBA credentials, you do not have to create users.

Database Service Logon Information dialog

This dialog appears only when you change an existing database's settings.

This account is used to access this database from various background processes (examples: package import, the upgrade process). The initial Wise Package Studio installation creates this account and generates a random password. If you prefer to manage this password yourself, you can change it here. The password you enter will be encrypted.

Create New Users dialog

This dialog appears if you specify SQL Server authentication for users. The DBA logon information you entered earlier will be used to create database users that you specify on this dialog for all databases that are being created (Workbench, Software Manager, Wise Services). These users will have modification privileges in all databases.

For each user, enter a **User Name** and **Password** and click Add.

Creation Options dialog

If the database is not local or the database already exists (example: during an upgrade), this dialog does not appear.

- **Import sample applications into Software Manager**
Import packages for sample applications into the Software Manager database. This option lengthens configuration time.

Choosing a Revision Control System

➤ *Not available in Standard Edition.*

Wise Package Studio contains a Revision Control System, with functions available in Software Manager. Use Revision Control to:

- Protect packages from unauthorized changes and changes to multiple copies of a package at one time.
- Track changes to packages.

Revision Control performs standard source control functions, including: check in, check out, undo check out, and view and retrieve previous versions. Whereas other source control products protect source files used to compile packages, Revision Control protects packages.

For details, see *Revision Control* in the Software Manager Help.

You cannot use both the Wise Revision Control System and a third party source control product. Choose which system to use in the Wise Repository Manager.

To choose a revision control system:

1. In the left pane of the Wise Repository Manager, click the Revision Control System icon.
2. In the right pane:
 - To use the Revision Control System in Wise Package Studio:
 - ◆ Mark **Wise Revision Control System**.
 - ◆ Mark **Require Comments for Each Revision** to require users to enter comments each time they check a package back into Revision Control.
 - To use a third-party source control product, mark **External Revision Control System**.

The Source Control menu in Windows Installer Editor provides access to the external revision control system.

Also see [Starting the Wise Repository Manager](#) on page 39.

Setting the Wise Service Account

➤ *Not available in Standard Edition.*

Wise Package Studio contains a service that lets users on client computers perform certain operations on the Wise Package Studio server. By processing operations on the server, you reduce the workload of the client computer and, if the packages and databases reside on the server, you improve the operation's performance.

This service requires a user account to access the information it needs to perform these operations. This user account is set up when Wise Package Studio is installed on the server. If the password for the user account changes, then this service will not work until the user's password is updated in the Wise Repository Manager.

To update the user account password:

1. In the left pane of the Wise Repository Manager, click the Wise Service icon.
2. In the right pane, change the password of the user account that is displayed.

Also see [Starting the Wise Repository Manager](#) on page 39.

Chapter 4

Tutorial

➤ *Professional Edition.*

This tutorial uses features that are not available in the Standard Edition of Wise Package Studio.

This tutorial guides you through the process of repackaging an application into Windows Installer format. You use a sample application named QuickFacts, which is included with Wise Package Studio, to provide you with a realistic practice scenario. QuickFacts is a utility that displays facts and bitmaps. It was created to illustrate the repackaging process.

In this tutorial, you will:

- Create a new Wise Package Studio project.
- Use SetupCapture to recreate the existing installation in Windows Installer format.
- Customize the installation package in Windows Installer Editor.
- Verify that the package complies with standards.
- Test the repackaged installation.
- Detect and resolve conflicts in ConflictManager.
- Deploy the application to end users.

If you are using Enterprise Management Server, security settings can limit access to some features. See your manager or system administrator if a feature described in this tutorial is not available.

Note

This tutorial does not cover details of the Wise Package Studio tools. Press F1 on any window or dialog for context-sensitive help.

Before You Start

- Make sure you are using the Professional Edition. This tutorial uses features that are not available in the Standard Edition.
- Obtain Wise Package Studio logon information.
 - If you are using an evaluation version of Wise Package Studio, you can log on as Admin and leave the password blank.
 - If you are using a production version, ask your manager or Wise Package Studio administrator for logon information.
- Close other applications before starting this tutorial. During the repackaging process, you capture the actions performed by an installation; it is important to close all applications other than Wise Package Studio to avoid capturing the activities of other applications and processes.

- This tutorial assumes that you are installing the sample application, QuickFacts, on your computer for the first time. If you have installed QuickFacts on your computer, uninstall it and remove any files and registry keys related to it. Files left from previous installations can cause your results to deviate from the information presented in this tutorial.

Import a Sample Package into Software Manager

In this procedure, you import a sample package into the Software Manager database. Later in the tutorial, you will detect conflicts between this sample package and the new package you create.

Frequently, you will need to import a package into the Software Manager database without repackaging. You might do this with a package that has already been approved and deployed so that all packages that have been installed throughout your company are in the Software Manager database.

To import a sample package into Software Manager:

1. Select Start menu > Programs > Altiris > Wise Package Studio > Wise Package Studio.

The Wise Package Studio Logon dialog appears.

2. Enter your logon information and click OK.

Wise Package Studio opens.

3. Click the Tools tab. At the top of the Tools tab, double-click Software Manager.

Software Manager opens.

4. Select Packages menu > Import.

The Import Type dialog appears.

5. Mark **Import a single file into the Software Manager database** and complete the dialog:

- **File**

Browse to the Tutorial subdirectory under the Wise Package Studio directory and open Sample Conflict.msi.

- **Distribute source files to the share point directory**

Mark this checkbox to copy the package's source files to the share point directory.

- **Overwrite existing application and package**

Mark this checkbox to overwrite any package that is already in the database with the same application and package names.

- **Do not modify the original package**

Normally, when you import a Windows Installer installation (.MSI or .WSI), the original installation file is updated with Wise-specific version information that speeds future subscriptions and imports of the installation. Mark this to prevent the original file from being changed.

- **Perform this operation on the Wise Package Studio Server**

Clear this checkbox.

- **Add to Revision Control**
Clear this checkbox.
 - **Detect conflicts during package import**
Clear this checkbox.
 - 6. Click Next on the Import Type dialog.
The Package Details dialog appears.
 - 7. Complete the Package Details dialog:
 - **Application Name**
Enter Sample Conflict. This identifies the application in the Software Manager database.
 - **Package Name**
Enter Conflict 1.0. Typically, you use the application name plus specific version information as the package name.
 - **Use Transactions for Import**
Leave this checkbox cleared.
 - 8. Click Next on the Package Details dialog.
The Transforms and Patches dialog appears.
 - 9. Click Finish.
The Wise Task Manager appears, then closes.
The package you selected is imported into the Software Manager database. It appears in Software Manager's Applications/Packages pane.
 - 10. Close Software Manager.
The right pane in Workbench reappears.
- You have finished importing a package into the Software Manager database. Next, you will create a new project in Wise Package Studio.

Create a New Project

In this procedure, you create a new project named QuickFacts in Wise Package Studio. The project defines the name and location of files, as well as the project name and other information. You also assign a repackaging process to the project. This process contains tasks that you will complete as you follow this tutorial. The tasks guide you through the basic steps of repackaging. All tasks automatically access the appropriate project files.


Note

Follow the instructions exactly as presented, otherwise your results can deviate from the information presented in this tutorial.

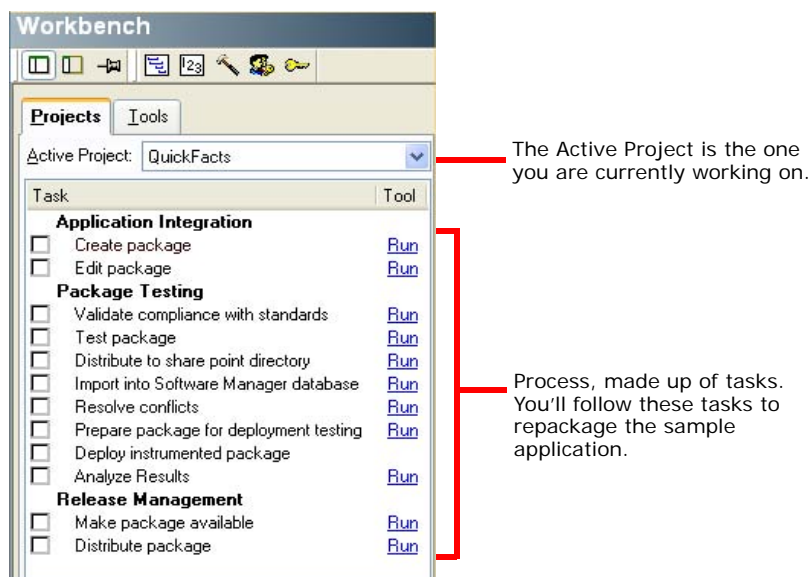
To create a new project:

1. If Wise Package Studio is not open, open it and log on.
2. Select File menu > New Project.

The Project Setup dialog appears. A new project appears in the Project list on the left and is selected by default.

3. Complete the right pane:
 - **Project Name**
Enter: QuickFacts
 - **Project Directory**
Leave the default.
 - **Status**
Leave the default of Open.
 - **Product Vendor**
Select **Altiris**.
 - **Application Name**
Enter: QuickFacts
 - **Package Name**
Enter: QuickFacts version 3.0
 - **File Name**
If a default does not appear, type: QuickFacts
 - **Vendor Package**
Do not type in this field. Instead, click the  button next to the field. Navigate to the Tutorial subdirectory under the Wise Package Studio directory and open QuickFactsInstall.exe.
 - **Project Owner**
This field appears with Enterprise Management Server only. Leave the default.
 - **Process**
Select **Repackage for Windows Installer**. The Repackage for Windows Installer process contains the tasks for repackaging an installation into a Windows Installer package.
4. On the Project Setup dialog, click Close.
5. If the Projects tab is not displayed in the left pane of Wise Package Studio, click it.
6. From **Active Project**, select **QuickFacts**.

The Projects tab displays the process you'll follow to repackage the QuickFacts application. This process consists of a set of tasks that appear in the **Task** list.



The Active Project is the one you are currently working on.

Process, made up of tasks. You'll follow these tasks to repackage the sample application.

Note

If a task is disabled, it means that you do not have a license to use the tool associated with it. With Enterprise Management Server, it might also mean that you do not have permission to use the tool associated with the task or have not been assigned as the task's owner.

You have finished creating a new project. Next, you will create a new package by capturing the QuickFacts installation.

Create the Package with SetupCapture

In this procedure, you repackage the existing QuickFacts installation program, which is the first step in the Application Integration phase. The Create package task runs SetupCapture, which records an installation and recreates it in Windows Installer Editor. SetupCapture also copies the directory structure and source files of the installation to the Projects\QuickFacts subdirectory in your share point directory. The repackaged installation that results from this SetupCapture will reference the source files in your share point directory rather than those installed in the Program Files directory.

Before you follow this procedure, you must have created the project as described in [Create a New Project](#) on page 51.

Note

Normally, you perform SetupCapture on a clean machine, which represents the base computer for your organization, and you reboot during the capture. However, in this tutorial, the installation you are capturing does not require a clean machine or a reboot.

To create the package with SetupCapture:

1. Close all applications other than Wise Package Studio. This includes background applications that might create or change files on the computer. (Example: Norton AntiVirus.)

2. In Wise Package Studio, click the Projects tab. **QuickFacts** should appear in the **Active Project** drop-down list.
 3. Click the Run link next to the Create package task.
The Welcome dialog appears.
 4. Click Settings.
The SetupCapture Configuration dialog appears.
 5. Set .TMP files to be excluded.
 - a. Click the File and Folder Exclusions tab.
 - b. If a message about file exclusions located under your user profile appears, click Yes.
 - c. Click Add on the File and Folder Exclusions tab.
 - d. The File Exclude dialog appears.
 - e. Leave the **Directory** field blank.
 - f. In **File/Wildcard**, enter *.tmp and click OK on the File Exclude dialog.
This adds *.tmp to the list of files that SetupCapture will ignore when it captures an installation.
 6. On the Directories to Watch tab, note the drive letter that will be watched so that you can install QuickFacts to this drive later in the tutorial.
 7. Click OK on the SetupCapture Configuration dialog.
The Welcome dialog reappears.
 8. Click Next on the Welcome dialog.
The Capture Methodology dialog appears.
 9. Complete the Capture Methodology dialog:
 - Mark **Snapshot**.
 - Clear **Use SmartMonitor in conjunction with Snapshot**.
 - Click Next.
-
- Note**
Snapshot comparisons look at the difference between a “before” snapshot of the system and an “after” snapshot to determine what happened during the installation.
-
- What happens next depends on whether SetupCapture previously scanned your computer.
- If SetupCapture previously scanned your computer, the Initial Scan dialog appears.
 - If SetupCapture did not previously scanned your computer, SetupCapture skips the Initial Scan dialog.
10. If the Initial Scan dialog appears, mark **Rerun the initial scan** and click Next.
The Begin Installation Capture dialog appears.
 11. Click Next on the Begin Installation Capture dialog.

SetupCapture scans your computer; this might take several minutes. When the scan finishes, the Execute Installation dialog appears. The vendor package that you specified in the QuickFacts project appears in the **.EXE Name** field. This is the installation that you will capture.

12. Click Execute on the Execute Installation dialog.

The QuickFacts Setup program opens in front of SetupCapture.

13. Step through the QuickFacts Setup program, accepting all default settings.

This installs a sample application named QuickFacts on your computer.

14. When the QuickFacts installation finishes, click Next on the Execute Installation dialog.

The End Installation Capture dialog appears.

15. Click Next on the End Installation Capture dialog.

SetupCapture scans your computer for a second time to determine what changed. This might take several minutes. When the scan finishes, the SetupCapture Inclusions dialog appears, which lists all the files, registry entries, shortcuts, and .INI file changes that will be included in the repackaged installation.

Note

Typically, you exclude from your installation those files and registry entries that are not applicable to all computers, or are not applicable to Windows Installer technology. Additional files that are not related to QuickFacts might be included in the list. Examples: temporary Internet files, cookies, and files that have to do with software that runs constantly in the background, such as virus protection software.

16. Exclude all files except the QuickFacts files listed below.

- License.txt
- QckFacts.exe
- ReadMe.txt
- Birds.bmp
- Birds.qft
- Cats.bmp
- Cats.qft
- Dogs.bmp
- Dogs.qft
- QuickFacts.cnt
- QuickFacts.hlp
- QFGUITAM.dll

17. Select **Registry keys** from **Inclusion Type** and exclude all registry keys except:

- Those with QuickFacts or QckFacts in their Key name.
- Registry keys for file associations, which vary by operating system. The list should include registry keys with the following ValueNames:
 - CaptionFontName
 - FactsBkColorBlue
 - FactsBkColorGreen
 - FactsBkColorRed
 - TitleFontSize
 - TitleText

Note

When you become familiar with your particular operating system environment, you will more easily know what files and registry entries are extraneous to an application. You can also run SetupCapture Configuration to build an exclusion list to further reduce extraneous files and registry entries.

18. Click Next on the SetupCapture Inclusions dialog.

The SetupCapture Exclusions dialog appears, which shows the registry keys that will be excluded from the repackaged installation.

Change **Exclusion Type** to **Files** to see the files that are excluded. There might be additional files and registry keys other than those you excluded if you have previously run/configured SetupCapture or if they are in the default SetupCapture exclusion list. Example: The files INSTALL.LOG and Unwise.exe appear because they are in the default SetupCapture exclusion list.

19. Click Next on the SetupCapture Exclusions dialog.

The Finish dialog appears.

20. The fields should appear exactly as shown below, if the Program Files directory is located on your C: drive. If the fields do not appear as below, edit them.

21. Click Finish.
22. If the Files in Repository dialog appears, click OK.

This saves the captured installation in Windows Installer format and copies the directory structure and source files of the installation to the Projects\QuickFacts subdirectory of your share point directory. This lets you create and edit your QuickFacts.msi package using relative paths, independent of the original installation.

You have finished capturing the QuickFacts installation. On the Projects tab, the checkbox next to the Create package task is marked to indicate that the task is complete. Next, you will customize the QuickFacts installation.

Edit the Package in Windows Installer Editor

In this procedure, you open the QuickFacts installation package you captured in the previous procedure, and then customize it for your organization. The Edit Package task runs Windows Installer Editor, which is an installation development environment for Windows Installer.

Windows Installer Editor has 3 views: Installation Expert, MSI Script, and Setup Editor. Each view provides a different development environment. In this tutorial, you use various pages in Installation Expert. Each page lets you review and edit a specific aspect of your installation.

Before you follow this procedure, you must have completed the previous procedure in this tutorial—[Create the Package with SetupCapture](#) on page 53—as well as all preceding procedures.

To edit the package in Windows Installer Editor:

1. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
2. Click the Run link next to the Edit package task.

The repackaged QuickFacts installation (QuickFacts.wsi) opens in Windows Installer Editor.

3. Make sure you are in Installation Expert by clicking the Installation Expert tab at the lower left of the window.

Note

Along the left side of the window are page group headings (example: Project Definition), below which appear linked page names. Click a page group name (example: Project Definition) to expand or collapse it. Click the page names below the page group names to go to a particular page.

4. In the Project Definition page group, click Product Details.

The Product Details page appears, which contains the installation's meta data. Because you entered much of the required information during SetupCapture, most of the fields are populated.

Enter the information that is not populated:

- **Application**
Enter: QuickFacts
- **Package**
Enter: QuickFacts version 3.0
- **Product Type**
(Read-only)
- **Product Name**
QuickFacts
- **Manufacturer**
Altiris.
- **Version**
3.0

- **Default Directory**
Program Files\QuickFacts
 - **Package Path**
(Read-only)
 - **Product Code**
Leave the default. This is a unique code, called a GUID, that Windows Installer uses to identify the product.
 - **Target Platform**
(Read-only.)
 - **Application Type**
Make sure this is set to **Win32 (non .NET)**.
 - **Installation Target**
Make sure this is set to **Windows-based desktop/server PC**.
 - **Description**
(Optional.) Enter: This is a sample application
5. (Optional.) In the Project Definition page group, complete the General Information page and the Add/Remove Programs page. To display context-sensitive help on these or any other Installation Expert pages, press F1.
- The information on the General Information page appears if an end user right-clicks on the installation .MSI in Windows Explorer and selects Properties. The information on the Add/Remove Programs page appears in the Add/Remove control panel for QuickFacts (Windows 2000 or later only).
6. In the Project Definition page group, click Features.
- The Features page appears.
7. Expand the Complete feature tree.
- A subfeature, named Feature, appears under the Complete feature. The QckFacts.exe file and its advertised shortcut are isolated in a separate feature to avoid a common performance issue related to Windows Installer repair functionality. The issue can cause repeated attempts to repair the application. Isolating the advertised .EXE and its shortcut fixes the problem. By default, the feature named Feature is hidden from the end user.
8. On the Features page, rename Feature to MainApp:
- a. Double-click the word Feature in the feature tree.
 - b. The Feature Details dialog appears.
 - c. In both the **Name** and **Title** fields, type: MainApp
 - d. Leave the defaults in the remaining fields.
 - e. Click OK on the Feature Details dialog.
9. In the Feature Details page group, click Files.
- The Files page appears and the files for the MainApp feature are displayed. To see the files for the Complete feature, select **Complete** from the **Current Feature** drop-down list at the top of the page. The **Current Feature** drop-down list indicates the number of files in each feature. In the lower-left list box, expand the QuickFacts folder to see the directories for that feature. The files in each directory are displayed in the lower-right list box.

10. (Optional.) Review the shortcuts and registry entries by selecting the Shortcuts and Registry pages in the Feature Details page group. Only the shortcuts or registry entries for the current feature appear. If no entries appear, change the current feature by selecting the feature name in the **Current Feature** drop-down list at the top of the page.
11. In the Target System page group, click System Requirements. You might have to scroll down to see the Target System page group.

The System Requirements page appears, where you change the system requirements of this installation:

- a. Double-click the **Windows Version** requirement.
 - b. On the Minimum System Requirements dialog, select **Windows 98** from **Windows Version**. This allows the program to install on Windows 98 or later.
 - c. In **Message Text**, enter:

You must have Windows 98 or later to run this installation.
 - d. Click OK on the Minimum System Requirements dialog.
 - e. Leave the **Windows NT** requirement set to **All Versions**, which includes Windows NT 4.0, Windows 2000, and later.
12. In the User Interface page group, click Dialogs.

The Dialogs page appears, where you specify which dialogs appear, and you specify a ReadMe file to display:

- a. Turn off the User Information dialog by clearing its checkbox.
- b. Turn on the Readme dialog by marking its checkbox.
- c. Select the Readme dialog and click Import Text, which is to the right of the dialog preview.
- d. On the Open dialog, navigate to *share point*\Projects\QuickFacts\Program Files\QuickFacts, where *share point* is the path to your share point directory. This is the location of the source files for this package, which were copied during SetupCapture. Change the **Files of type** drop-down list to **Text files (.txt)**. Open the ReadMe.txt file.

The ReadMe text appears in the Readme Information dialog preview and will appear in this dialog during installation.

13. Save the installation by selecting File menu > Save.
14. Close Windows Installer Editor.

You have finished customizing the QuickFacts installation, which completes the Application Integration phase of the Repackaging for Windows Installer process. On the Projects tab, the checkbox next to the Edit package task is marked to indicate that the task is complete. Next, you will validate the package you created.

Validate the Package

In this procedure, you validate the QuickFacts package, which is the first step in the Package Testing phase. The Validate compliance with standards task runs Package Validation, which verifies that the package complies with Microsoft's Application Specification for Windows 2000.

Before you follow this procedure, you must have completed the previous procedure in this tutorial—[Edit the Package in Windows Installer Editor](#) on page 57—as well as all preceding procedures.

To validate the package:

1. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
2. Click the Run link next to the Validate compliance with standards task.

Dialogs appear briefly and the .WSI is compiled into a .MSI. The Welcome dialog for the Package Validation tool appears, listing the predefined validation tests that can be performed. To see a description of each test, click the test name, and the description appears at the right of the dialog.

3. Mark **Windows Installer SDK Internal Consistency** only. If necessary, clear all other checkboxes.
4. Click Next.

The test runs. This might take a few minutes. When the test finishes, the View / Correct dialog appears, which lists all the possible problems detected.

Normally, no errors appear for QuickFacts, although for more complex installations, errors are more likely to appear. If there were errors and if the Correct button became enabled when the error was selected, you could click Correct to resolve the problem. Otherwise, you would open the installation in Windows Installer Editor, fix the error, and recompile. Errors are documented in the Windows Installer SDK Help. Start with the topic *Internal Consistency Evaluators - ICES*.

5. Click Finish on the View / Correct dialog.

You have finished validating the QuickFacts installation package. On the Projects tab, the checkbox next to the Validate compliance with standards task is marked to indicate that the task is complete. Next, you will test the package.

- If you have Test Expert, which comes with the Quality Assurance module, you will use it to test. See [Test the Package With Test Expert](#) on page 61.
- Otherwise, see [Test the Package Without Test Expert](#).

Test the Package Without Test Expert

Note

Follow this procedure if you don't have the Quality Assurance module. If you have the Quality Assurance module, skip this procedure and follow the steps in [Test the Package With Test Expert](#) on page 61.

In this procedure, you test the QuickFacts package. The Test package task installs the QuickFacts application on your computer. Then you perform tests to verify that the application works as expected.

Normally, a package would require more thorough testing. To test in a corporate environment, you would copy the finished .MSI file to a file server or other media, such as a CD. Then you would install the application on computers that are representative of the target computers and test it.

Before you follow this procedure, you must have completed the previous procedure in this tutorial—[Validate the Package](#) on page 59—as well as all preceding procedures.

To test the package without Test Expert:

1. Use Add/Remove Programs from the Control Panel to uninstall the copy of QuickFacts that you installed during the first part of this tutorial.
You uninstall because during this procedure, you install and test the repackaged version of QuickFacts. Removing the original QuickFacts ensures that you test only the repackaged installation.
2. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
3. Click the Run link next to the Test package task. The repackaged QuickFacts installation begins.
4. Step through the installation, accepting all the defaults.
5. After the installation finishes, open QuickFacts.
6. To check the QuickFacts installation, verify that its:
 - Shortcuts were created
 - Registry entries were created
 - Files were installed
7. To test the QuickFacts application, use every function.
 - In the **Select an item to see facts** list, select all 3 items, one at a time.
 - Select Help menu > Help Contents.
 - Select Help menu > QuickFacts Readme.
 - Click About in the lower right of the QuickFacts dialog.
8. Unlike with other tasks, the checkbox next to the Test package task is not marked, because additional testing might be necessary (example: testing on a clean machine). In this tutorial, you will not perform additional testing. On the Projects tab, mark the checkbox next to the Test Package task.

You have finished testing the package installation.

Next, you will distribute the package to the share point directory; see [Distribute the Package](#) on page 64. Skip the next section, which is applicable only if you have the Quality Assurance module.

Test the Package With Test Expert

➤ *Quality Assurance module only.*

If you don't have the Quality Assurance module, skip this section and follow the steps in [Test the Package Without Test Expert](#) on page 60.

In this procedure, you perform integration and acceptance testing of the QuickFacts package. The Test package task runs Test Expert, which generates a master test plan based on the contents of a package and guides you through the execution of various test cases. This makes the testing process more efficient and focused, eliminating the random approach often used in an ad hoc testing environment. Test Expert performs analysis on .MSI-based installations only.

Before you follow this procedure, you must have completed the previous procedure in this tutorial—[Validate the Package](#) on page 59—as well as all preceding procedures.

Note

Under normal testing conditions, Test Expert requires a clean machine to ensure the integrity of the repackaged installation.

To test the package with Test Expert:

1. Use Add/Remove Programs from the Control Panel to uninstall the copy of QuickFacts that you installed during the first part of this tutorial.

You uninstall because during this procedure, you install and test the repackaged version of QuickFacts. Removing the original QuickFacts ensures that you test only the repackaged installation.

2. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
3. Close all applications other than Wise Package Studio, including background applications that might create or change files on the computer.
4. Click the Run link next to the Test package task.

Dialogs appear briefly and the package is recompiled. The Test Expert window appears, with QuickFacts.msi opened.

Note

If Test Expert does not open, it means you don't have the Quality Assurance module. Follow the steps in [Test the Package Without Test Expert](#) on page 60.

When you open a package in Test Expert, the Master Test Plan for that package is displayed. Each time you open the package, the package is read and test cases are generated based on the contents of the package. In addition to the Master Test Plan, you can add user-defined test cases to fully test the package for the requirements of your organization. In this tutorial, you perform only 2 of the test cases provided in the Master Test Plan.

5. In the Installation Tests section in the left pane, select the Verify Installation test case.

The Verify Installation page appears in the right pane. This test case ensures that the installation runs without errors by installing the QuickFacts package you created during SetupCapture.

6. Click Install on the toolbar at the top of the window. Then, in the Welcome dialog, click Cancel to skip the Machine Capture.

Machine Capture is necessary only if you plan to perform Uninstall Tests, which are skipped in this tutorial.

The QuickFacts Setup program opens in front of Test Expert.

7. In the QuickFacts Setup program, step through the installation, accepting all default settings. This installs the QuickFacts package.
8. If the QuickFacts installation ran without errors, from **Status of Test Case**, select **Passed**. A check mark icon appears next to the Verify Installation test case.
9. In the Application Execution Tests section, select the File Coverage test case.

A list of all files accessed by the QuickFacts application appears on the All Test Items tab in the right pane. The File Coverage test case indicates which installed files are accessed as the application is run.

10. Click Run on the toolbar.

The Run Application Execution Tests dialog appears.

11. In the **File to Run** list, select **QckFacts.exe** and click OK.

The QuickFacts application opens and the Application Monitor window appears.

Note

You must leave the Application Monitor window open while you exercise the functionality of the application because your system is monitored only when it is open. Move or minimize it if necessary.

12. To test the QuickFacts application, use every function.

- In the **Select an item to see facts** list, select all 3 items, one at a time.
- Select Help menu > Help Contents.
- Select Help menu > QuickFacts Readme.
- Click About in the lower right of the QuickFacts dialog.

As files are accessed, the Application Monitor window is updated. When you finish testing, the File Coverage graph in Application Monitor indicates the percentage of the files that were accessed.

Note

Some files are not accessed by an application during normal use. Example: In the QuickFacts application, License.txt is not accessed during normal application execution.

13. To return to Test Expert, click Exit in the QuickFacts application and close the QuickFacts ReadMe.
14. Close the Application Monitor window. Monitoring does not stop until it is closed.

On the All Test Items tab, all files except License.txt should display the **Passed** status. Because the License.txt file is not accessed during normal application execution, it has a **Pending** status. The test items should look like this:

Status	Path	FileName	Type
✓ Passed	[ProgramFilesFold...	Birds.bmp	BMP File
✓ Passed	[ProgramFilesFold...	Birds.qft	QckFacts ...
✓ Passed	[ProgramFilesFold...	Cats.bmp	BMP File
✓ Passed	[ProgramFilesFold...	Cats.qft	QckFacts ...
✓ Passed	[ProgramFilesFold...	Dogs.bmp	BMP File
✓ Passed	[ProgramFilesFold...	Dogs.qft	QckFacts ...
⚠ Pending	[ProgramFilesFold...	License.txt	Text Docu...
✓ Passed	[ProgramFilesFold...	QckFacts.exe	Application
✓ Passed	[SystemFolder]	QFGUITAM.dll	Application..
✓ Passed	[ProgramFilesFold...	QuickFacts.hlp	Compiled H...
✓ Passed	[ProgramFilesFold...	QuickFacts.cnt	Compiled H...
✓ Passed	[ProgramFilesFold...	ReadMe.txt	Text Docu...

15. To set the status of the License.txt file to **Passed**, double-click the License.txt file on the All Test Items tab.

The Test Item Details dialog appears.

- a. From **Status**, select **Passed**.

- b. In **Test Details**, type:

This file is not accessed during normal application execution.

- c. Click OK.

16. On the File Coverage page, from **Status of Test Case**, select **Passed**.

Note

You might notice that the bold type is removed from all test case names under Application Execution Tests, which indicates they have been run. This is because all Application Execution Tests are run simultaneously.

17. Close Test Expert.

For the purposes of this tutorial, you have finished testing the package. Normally, you would execute all test cases. On the Projects tab, the checkbox next to the Test package task is marked to indicate that the task is complete. Next, you will distribute the package to the share point directory.

Distribute the Package

In this procedure, you distribute the QuickFacts package to the share point directory so that it can be imported into the Software Manager database. The Distribute to share point directory task runs Package Distribution silently, which places the package into a queue for later import by Software Manager.

Before you follow this procedure, you must have completed the previous procedure in this tutorial—[Test the Package Without Test Expert](#) on page 60 or [Test the Package With Test Expert](#) on page 61—as well as all preceding procedures.

To distribute the package:

1. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
2. Click the Run link next to the Distribute to share point directory task.

A dialog appears briefly and the package is copied to the share point directory.

You have finished distributing the package to the share point directory. On the Projects tab, the checkbox next to the Distribute to share point directory task is marked to indicate that the task is complete. Next, you will import the package into the Software Manager database.

Import the Package into Software Manager

In this procedure, you import the QuickFacts package into the Software Manager database. The Import into Software Manager database task runs Software Manager silently, which imports the package. Software Manager administers the information stored in the Software Manager database.

Before you follow this procedure, you must have completed the previous procedure in this tutorial—[Distribute the Package](#) on page 64—as well as all preceding procedures.

To import the Package into Software Manager:

1. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
2. Click the Run link next to the Import into Software Manager database task.

A dialog appears briefly and the package is imported into the Software Manager database.

You have finished importing the QuickFacts package into the Software Manager database. On the Projects tab, the checkbox next to the Import into Software Manager database task is marked to indicate that the task is complete. Next, you will detect and resolve software conflicts.

Resolve Conflicts with ConflictManager

In this procedure, you compare the QuickFacts package to the Sample Conflict package you imported earlier. The Resolve conflicts task opens ConflictManager, which detects and resolves software conflicts before you deploy applications throughout your organization.

By default, conflict detection is set to run automatically when you import a package into the Software Manager database. This is controlled by the **Detect conflicts during package import** checkbox in Conflict Settings. You can override this setting for specific packages during package import, by marking or clearing the **Detect conflicts during package import** checkbox on the Import Type dialog.

Because conflict detection was run during package import, you do not have to detect conflicts in this step.

Before you follow this procedure, you must have completed the previous procedure in this tutorial—[Import the Package into Software Manager](#) on page 65—as well as all preceding procedures.

To resolve conflicts with ConflictManager:

1. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
2. Click the Run link next to the Resolve conflicts task, which launches ConflictManager.
If the Detect Conflicts dialog appears, click Cancel.
3. Expand the QuickFacts tree in the Applications/Packages pane and select the QuickFacts version 3.0 package.

In the Conflict List pane, a conflict for QFGUITAM.dll appears. The red exclamation point next to it indicates that it is classified as an error. If warnings existed, which are not as serious as errors, they would appear in this list with yellow question mark icons.
4. To fix the conflict, select Conflicts menu > Resolve.
The Welcome dialog of the Resolve wizard appears.
5. From **Application**, select **QuickFacts**.
QuickFacts version 3.0 appears in the **Package** field.
6. From **Isolation method**, select **Isolated Components (Windows 98 SE/Me/2000/XP/2003)**.

Isolating a conflict means that each application will use its own version of the conflicting file. The files will be stored in different directories, and will be managed by Windows Installer.
7. Click Next.

The File Conflicts dialog appears. The upper list box contains the name and information of the file in your package that has conflicts (QFGUITAM.dll). The lower list box contains the package and file that QFGUITAM.dll conflicts with.
8. Select QFGUITAM.dll in the upper list box and click Move on the right of the File Conflicts dialog.

The exclamation point becomes white to indicate that the problem has been fixed. Because you selected **Isolated Components** as the **Isolation Method**, the Move button isolates the file so that each package that uses QFGUITAM.DLL will use its own version. This means that a copy of QFGUITAM.DLL will be installed into the QuickFacts directory, and QuickFacts will reference its own copy of the .DLL file.
9. Click Next on the File Conflicts dialog.

The File Conflicts in Registry dialog appears, which should be empty.
10. Click Finish.

In the Conflict List pane, a yellow question mark icon appears next to QFGUITAM.dll. The file conflict has been resolved by isolating the file in different directories but is still listed as a warning. This is because 2 installation packages install a non-16-bit file with the same file name but different file information (file version number or date/time) to different directories. Also, the File Conflicts bar graph in the Summary pane indicates 1 warning.
11. To view only errors (red exclamation points) in ConflictManager, not warnings (yellow question marks), do the following:
 - a. Select Conflicts menu > Filter to display the Filters dialog.

- b. In the Conflict Types to Display section, clear **Warnings**.
- c. Click OK.

The conflict filter is globally set to show only errors in the Conflict List pane.

12. Select Packages menu > Export and Recompile.

The Export Changed Packages and Recompile dialog appears, listing the QuickFacts package.

13. Mark the checkbox for the QuickFacts package. Also, mark **Compile the packages after export** and click OK.

Several progress dialogs appear briefly during the export.

14. When progress dialogs stop appearing, close ConflictManager.

The file change is made in the QuickFacts.wsi file with which you've been working, which is in the Projects\QuickFacts subdirectory of the share point directory. It is also compiled to a file named QuickFacts.msi. The conflict that it had with the Sample Conflict package is now resolved because each package will use its own version of the .DLL file instead of one .DLL overwriting the other .DLL.

You have finished resolving conflicts. On the Projects tab, the checkbox next to the Resolve conflicts task is marked to indicate that the task is complete.

If you don't have the Quality Assurance module, all the tasks in the Package Testing phase of the Repackaging for Windows Installer process are complete. If you have the Quality Assurance module, the Package Testing phase contains 3 additional tasks: Prepare package for deployment, Deploy instrumented package, and Analyze Results. This tutorial skips these tasks because they require integration with other computers.

Next, you make the package available for distribution to end users.

Make the Package Available

In this procedure, you update the status of the QuickFacts package to Available, which is the first step in the Release Management phase. The Make Package Available task runs Software Manager silently, which updates the status of the package and copies the package to the Available Packages subdirectory in the share point directory.

The Available Packages directory provides a centralized location for storing all of your packages that are complete and available for deployment, and keeping them separate from packages that are still in development.

Before you follow this procedure, you must have completed the previous procedure in this tutorial—[Resolve Conflicts with ConflictManager](#) on page 65—as well as all preceding procedures.

To make the package available:

1. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
2. Click the Run link next to the Make Package Available task.

A dialog appears briefly. The package status is updated to Available, and the package is copied to the Available Packages directory in the share point directory and marked as Read-only.

You have finished making the package available for distribution to end users. On the Projects tab, the checkbox next to the Make package available task is marked to indicate that the task is complete. Next, you will distribute the package to end users.

Distribute the Package

In this procedure, you distribute the QuickFacts package to a location that can be accessed by end users. Normally, this would be a shared network drive or a distribution system. In this tutorial, you distribute it to your local drive. The Distribute package task runs Package Distribution.

After the package is distributed to end users, the Repackage for Windows Installer process is complete.

Before you follow this procedure, you must have completed the previous procedure in this tutorial—[Make the Package Available](#) on page 67—as well as all preceding procedures.

To distribute the package:

1. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
2. Click the Run link next to the Distribute Package task. Dialogs appear briefly and the package is recompiled.

The Distribution Method dialog of the Package Distribution tool appears. Options are available based on the type of package and the distribution systems available on the computer.

3. In the Other Distribution Options section, mark the **Network** and **Installation** options and click Next.

The Network Directory dialog appears.

4. In **Network Directory**, specify a directory in which to save the installation. Typically, this would be a shared network drive available to users. In this tutorial, specify a directory on your local drive.
5. To save the installation with a name other than its current name, enter the new name in **Destination File Name**.
6. Click Finish.

The package is distributed to the directory you specified.

On the Projects tab, the checkbox next to the Distribute Package task is marked to indicate that the task is complete.

You have completed the application repackaging process from capturing an application to distributing a package to end users. By following this process, you have ensured that your application is ready for deployment, installation, use, and maintenance within the context of the infrastructure of your organization.

(Optional.) If you are working in your company's production database, you should remove the test applications Sample Conflict and QuickFacts from the database. If this is necessary, follow the steps in [Remove Tutorial Packages from Software Manager](#).

Remove Tutorial Packages from Software Manager

To ensure that your Software Manager database contains only production packages, remove the QuickFacts and Sample Conflict packages.

To remove tutorial packages from Software Manager:

1. In Wise Package Studio, click the Tools tab. At the top of the Tools tab, double-click Software Manager.

Software Manager opens.

2. Select Packages menu > Delete.

The Delete Package dialog appears.

3. Select both the Sample Conflict and QuickFacts packages.

4. To delete the package's source files from the share point directory, mark the checkbox at the bottom of the dialog.

5. Click OK.

The Sample Conflict and QuickFacts packages are deleted from the database.

6. Close Software Manager and Wise Package Studio.

You have completed this tutorial.

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