



Studio Installation Guide

Witango 5.5 Studio for Win

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Introduction

Basic know-how for the Installation of Witango 5.5 Studio

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About Witango

Witango consists of a number of components which are designed to allow you to easily develop, deploy, and maintain dynamic web sites.

The main components of Witango are:

- **Witango Development Studio** is used to create Web applications. It is available for Windows and Macintosh platforms.
- **Witango Application Server** is used in conjunction with a web server to execute the web applications developed with Witango Studio. It is available for Windows, Macintosh, Solaris, and Linux platforms. A development version of Witango Server is available to customers who purchase the Witango Studio.
- **Witango for J2EE** which is used when the web applications compiled from the Studio are deployed on a J2EE compliant web server.

A typical installation of Witango consists of a Witango Development Studio for each developer and one or more Witango Application Servers for deployment. The number of Witango Servers you need depends on the traffic volume on your Web site and the complexity of your applications.

Understanding Witango Installation

Installing Witango includes the following tasks:

- extract the installer from the archive
- installation of the Java2 Runtime Environment 1.4.1 or higher (if required)
- Run the Installer
- Launch the Studio
- Enter the License Key into the Studio
- Configuration of ODBC / JDBC drivers
- Creation of ODBC / JDBC data sources, if required

Getting Ready to Install Witango

Checking Your Witango Package

You should ensure that you have downloaded the latest installer archive which contains all the files necessary to run Witango Studio. This information will be available at <http://www.witango.com/downloads>

Java Runtime Environment (JRE)

You must have Java2 Runtime Environment (J2RE) 1.4.1 or greater installed on your machine if you want the Witango Studio to use JavaBeans or initialise the JDBC interface. You can get the latest release of J2RE from the following Web sites:

<http://java.sun.com>

Viewing the Release Notes

Before installing Witango, make sure you view the Release Notes (Readme). The Release Notes contain additional information concerning Witango.

Database Connectivity

Witango can access the following databases via database driver managers:

Connection	Driver Manager	Download
Oracle version 8*	OCI 8.1.7.6 or higher	otn.oracle.com
ODBC 3.0 or higher	MDAC 2.7 or above UNIXodbc iodbc	www.microsoft.com/mdac www.unixodbc.org www.iodbc.org
JDBC	JVM 1.4.1.02 or higher	java.sun.com

* If you use Oracle, the required libraries are included with Oracle. You need to add the \$ORACLE_HOME/lib to the LD_LIBRARY_PATH environment variables for your user so that Witango Studio can initialise the OCI interface.

Witango 5.5 Studio for Windows

2

Installation instructions for Witango 5.5 Studio for Windows

This chapter walks you through:

- the installation process;
- obtaining and entering your license key;
- configuring your required database drivers; and
- where to get help.

Minimum System Specifications

Witango Technologies strongly recommend the following as minimum setup standards for Witango Studio 5.5:

Operating System Windows NT4 Service Pack 6
 Windows 2000 Service Pack 3
 Windows XP Service Pack 1

Hardware Pentium II / 400 MHz or equivalent
 64 Mb RAM
 20 Mb hard disk space

Web Server Any Web Server. One of the following is recommended however:

- Apache – version 1.3.27 or above
- Apache2– version 2.0.44 or above
- Microsoft IIS - version 4 or above

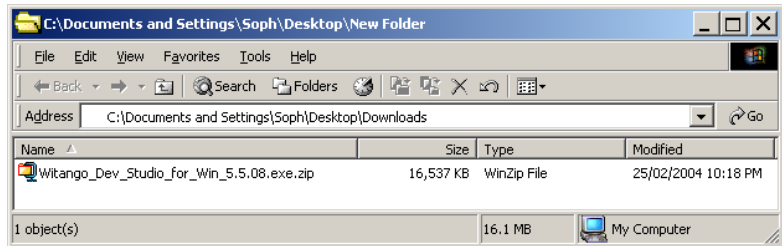
Any frames-capable Web Browser.



Note Witango Studio 5.5 may install and run on systems of lesser specifications than set out above however support from Witango Technologies staff will **not** be available for these systems.

Other Requirements

The Witango software is supplied to you via download from Witango's web site found at <http://www.witango.com/downloads>. The software installer is in a compressed WinZip archive format and will appear in the location that you chose during the download process. An example is shown below.



Note The number which appears in the archive file name will vary in line with the current software version being supplied.

WinZip archive utility version 7 or above must be installed on your machine in order to be able to extract and use the Witango installer. An evaluation copy of the WinZip utility can be downloaded free of charge from their website at <http://www.winzip.com>

It is strongly recommended that you close all programs or applications on the machine on which you are installing Witango prior to starting the Witango install application. This reduces the risk of software conflicts and frees system memory for the installation process.

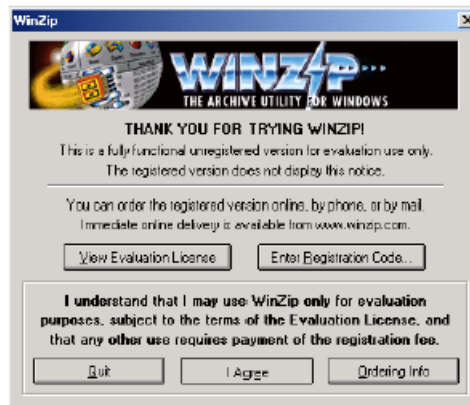
You must have access to the administrative account on your system that has Administrator level privileges to successfully install Witango software.

Extracting the Witango 5.5 Studio Installer Software

The Witango Studio 5.5 software installer is supplied to you in WinZip archive format. In order to use the installer it must first be decompressed from the WinZip archive.

Starting WinZip

- 1 Double click the WinZip archive that you downloaded from the Witango web site. This will automatically start the WinZip application.

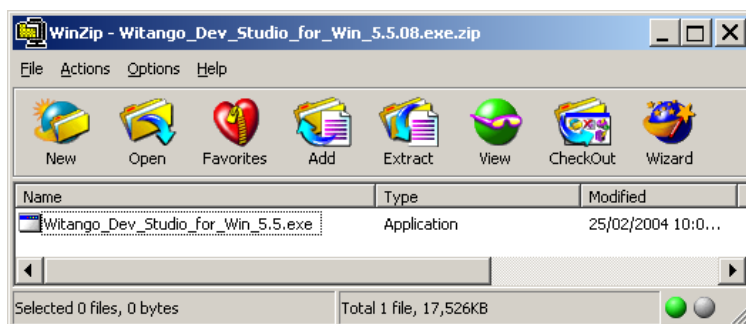


WinZip License Agreement/Splash screen

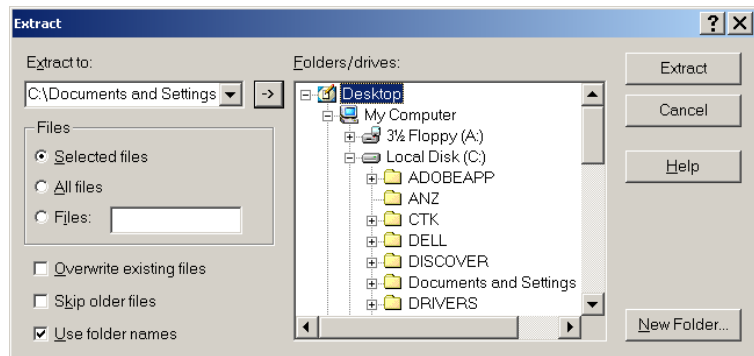
- 2 Launch the utility in the mode you are licensed by WinZip to do so.

The WinZip Archive screen

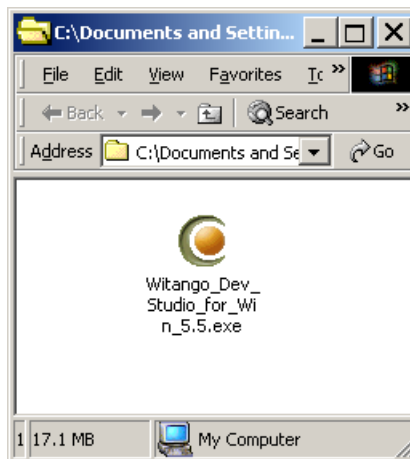
- 3 This screen will show the contents of the WinZip archive. The Witango installer file should be displayed within this window.



- 4 Extract the file from the archive by clicking on the **Witango Studio 5.5 for Windows.exe** file and then clicking **Extract**. The Extract Window will appear.



- 5 In the **Extract To** field, type the full path of the destination folder that the Witango Installer is to be located in. Alternatively, use the expanding folders to graphically navigate to a preferred location.
- 6 Click **Extract** to begin the extraction process once a suitable location has been chosen.
- 7 Exit the WinZip utility on completion of the extraction process.
- 8 Double Click on the destination folder to see the Witango 5.5 Studio Installer.

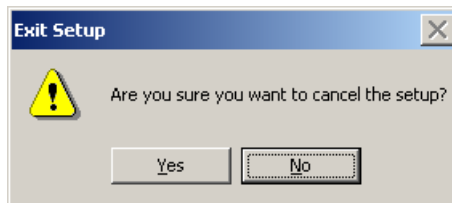


Cancelling Witango Studio 5.5 Installer Processes

It is possible to cancel any process that the installer is engaged in and escape the Installer application at any time without any changes being made to your system. To do this either:

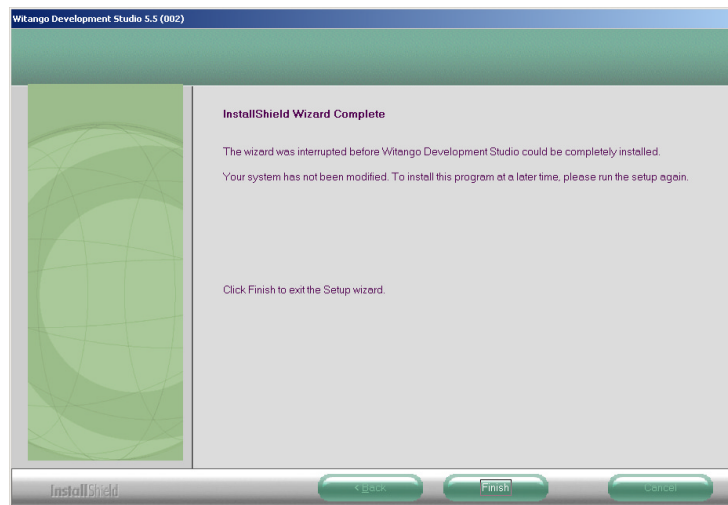
- Press the **Esc** button on your keyboard; or
- Click **Cancel** on any of the installer screens.

The following confirmation dialog box will appear:



Click **No** to continue the install process uninterrupted.

Click **Yes** to cancel the install process immediately. After clicking Yes an information screen will appear:



Click **Finish** and the Witango installer application will close.

Installing the Witango Studio 5.5 Software

Installation of the Witango Studio software is an automated process. This section will guide you through this installation setup process.



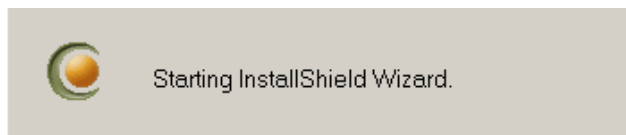
Note The install process will require you to reboot your machine however you do not need to do so immediately. The Witango installer will allow you to install the software and postpone the reboot until an acceptable time.



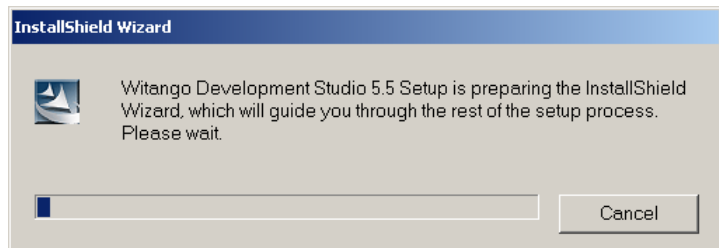
Caution If you leave previous versions of Witango Studio installed on your machine, and remove these earlier versions AFTER you have installed Witango Studio 5.5 you may inadvertently remove the file mappings for .taf, .tcf, .tml and .inc files. If this happens you will need to run the Witango Studio 5.5 installer again so that these mappings are re-inserted in the Registry.

Starting the Installation

- 1 Double click the Witango Studio 5.5 for Windows.exe file. The Witango Studio 5.5 For Windows - InstallShield Wizard will start extracting the files required for Witango Studio 5.5 installation:



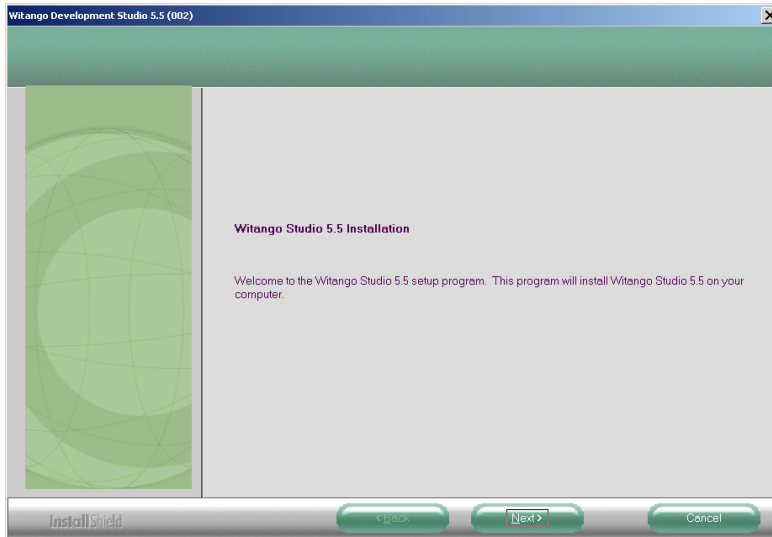
- 2 A message indicating that the InstallShield Wizard is preparing to install Witango Studio 5.5 software is displayed.



- 3 It will disappear after a several seconds and the Witango Studio Software Installer will start operation.

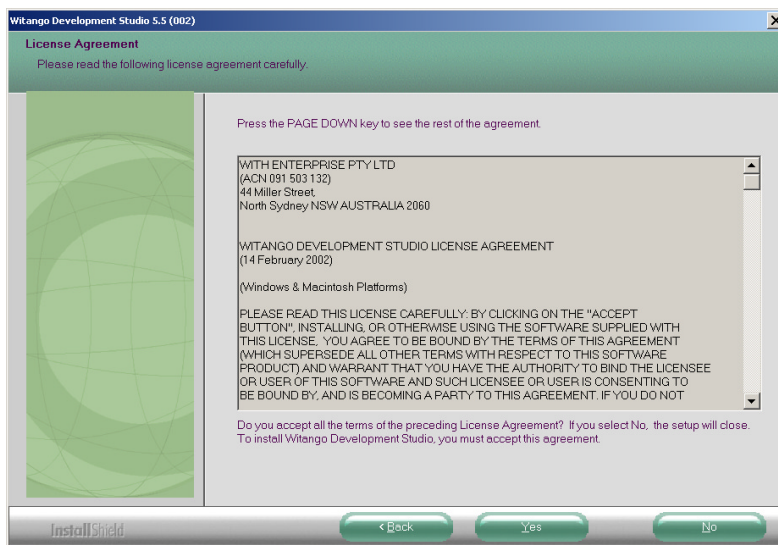
The Welcome screen

- 4 Read the Welcome Message then click the **Next** button to proceed to the next screen.



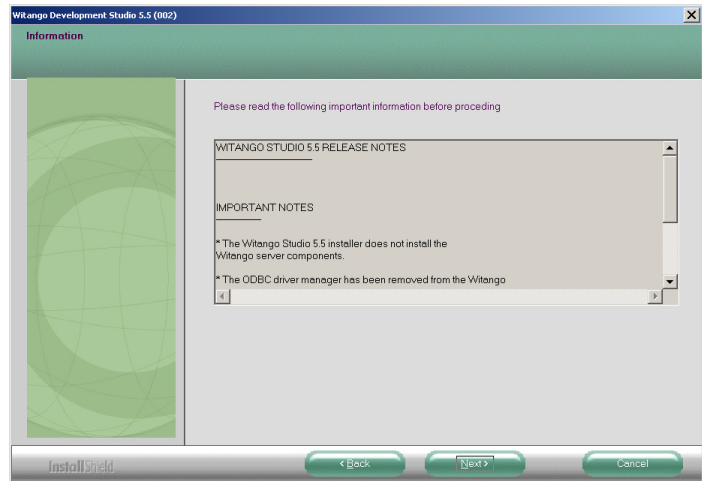
The License Agreement screen

- 5 Read the Witango Studio licensing information carefully. Once you have read the license agreement, either:
 - Click the **Yes** button to accept the terms of the license and to proceed to the next screen.; or
 - Click **No** to reject the terms of the license agreement and cancel installation.



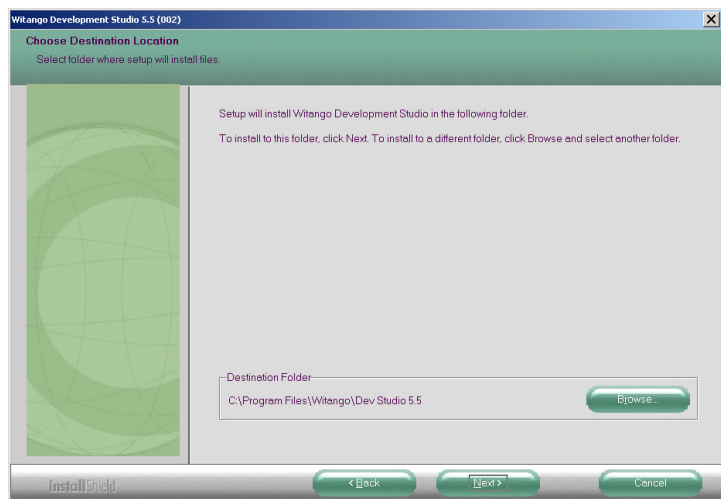
The Important Notes screen

- 6 Read the Witango Studio **Important Notes** carefully. This screen contains last minute information regarding the build of the Studio you are installing. Once you have read the Important Information, click the **Next** button to proceed to the Install Process.



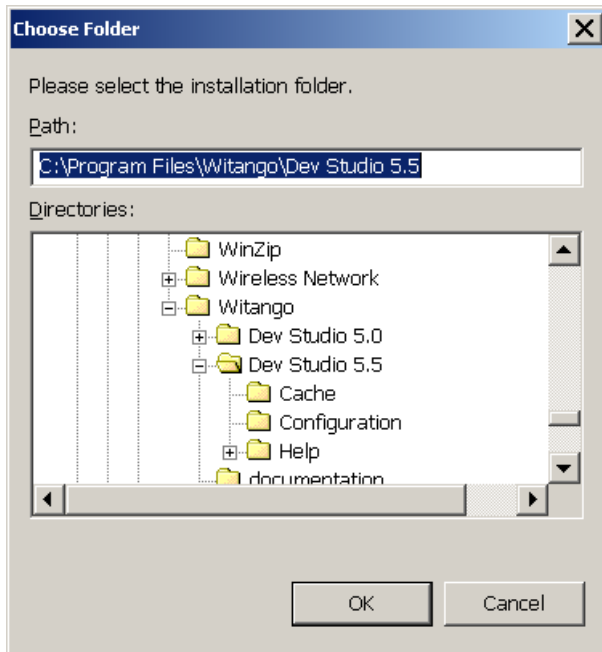
The Destination Location screen

- 7 This screen allows you to set the directory location on your hard disk that the Witango Studio 5.5 software will be installed to. The default install location is C:\Program Files\Witango\Dev Server 5.5. To **accept** this location, click **Next**.



To **change** the location to a Directory other than the default setting, click **Browse**.

In the **Path** field, type the full path of the folder in which to install the Witango Studio 5.5 software. Alternatively, use the expanding folders to graphically navigate to a preferred location.

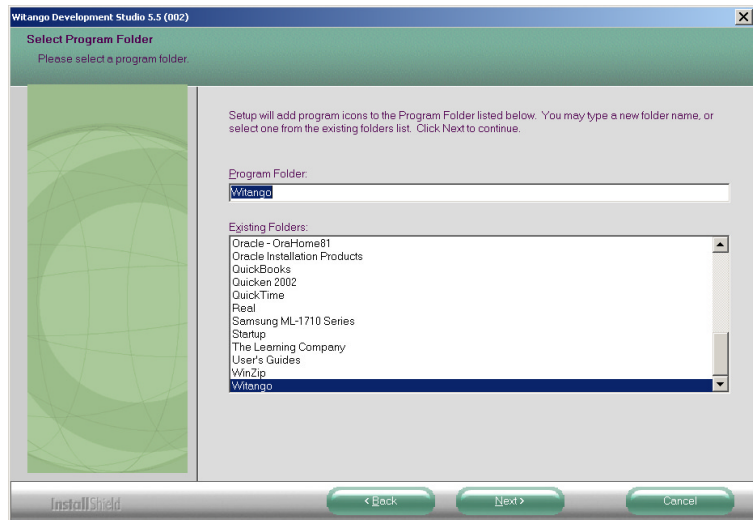


Click **OK** when a satisfactory location has been selected. The Choose Destination Location screen re-appears with the required location. Click **Next** to continue.

The Select Program Folder screen

- 8 Select the program folder where you intend to locate Witango Studio 5.5 program icons. You can do this by either:
 - Typing a new folder name in the Program Folders field. By default **Witango Studio** is entered here. Simply type over it if you wish to use a program folder with another name.
 - Click one of the existing folder names listed in the **Existing Folders** field.

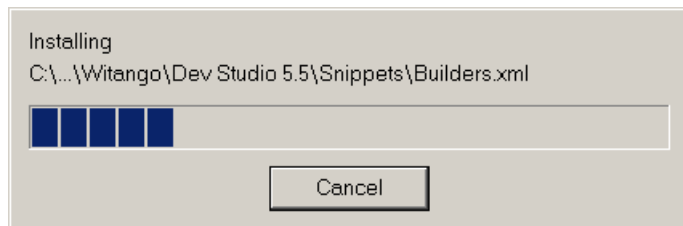
Click **Next** when a suitable selection has been made.



Note If you want to review or change any of the installation settings this is your last opportunity to do so before the installation of the software takes place. Click **Back** to check install options on previous screens.

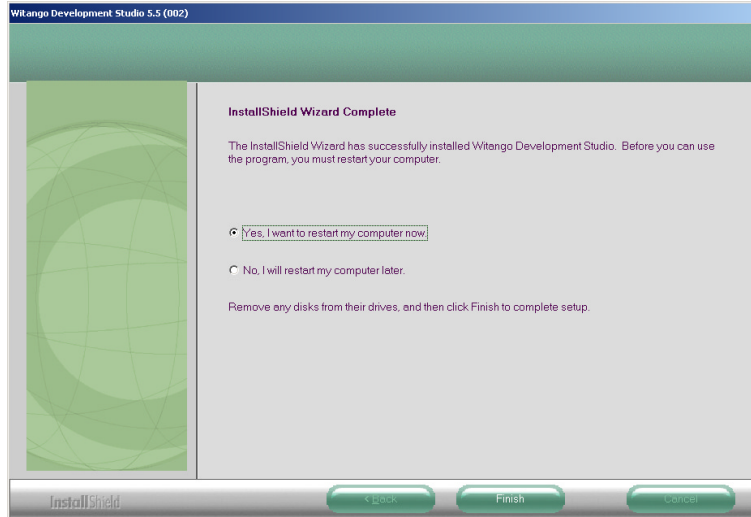
The Install Software screen

- 9 This window will appear when the Witango software files are being transferred to your hard disk. It gives a broad indication of the progress of the software install and indicates which files are currently being transferred and where they are being placed on your hard disk. It will disappear after all files have been installed.



The Install Completion screen

The Installer will indicate that the software has been successfully installed and prompt you to restart your computer.



10 You must reboot your computer before using the Witango Studio 5.5 software. When the Witango Studio 5.5 install has completed the transfer of files to your system the Witango Installer will give you the option of rebooting immediately or later at your convenience.

11 Either:

- Click **Yes I want to restart my computer now** to exit the Witango installer and have your computer automatically reboot itself immediately.
- Click **No I will restart my computer later** to exit the Witango installer without your computer rebooting itself.



Note Although the Witango Studio 5.5 software has now been successfully installed onto your system, it will not function correctly until after the system reboot.



Note Both the Witango installer and WinZip will clear any temporary files from your hard disk that may have been created during the install process and then close themselves down.

Witango Studio Registration

The Witango Studio 5.5 Installer will install a fully featured edition of Witango 5.5 Studio by default. This Studio is capable of running in 3 modes:

- **TRIAL MODE** - a 30 day time limited fully featured edition of the 5.5 Studio.
- **LITE MODE** - a FREE edition of the 5.5 Studio which is NOT time limited but does NOT have the Objects features (TCF, JavaBeans or COM), Project related features, Syntax Checking or Java Compile functionality.
- **STANDARD MODE** - a fully featured Studio which is NOT time limited.

The mode in which the Studio will execute depends on the License Key entered.

Obtaining a Trial Key



To request a Trial License Key for Witango 5.5 Studio, visit witango.com and follow the 30 DAY TRIAL KEY button. You will be taken to a page which outlines the steps to trial Witango. Step 4 includes the form to request a trial key. Complete the form and you will be emailed a trial license key.



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Witango Developers Conference

30 Day Trial Licenses

Thank you for choosing to evaluate the Witango Product Suite. Set out below are the steps we recommend that you take in order to successfully trial Witango.

The Witango product suite is made up of two components:

- the **Witango 5.5 Studio** which is visual programming tool used to create your web application; and
- the **Witango 5 Server** which is the application server used execute your application.

STEP ONE - DOWNLOAD THE SOFTWARE

To evaluate Witango you will need to download and install both of these applications. Links to installers on all available platforms are available on the [downloads page](#). You will also need a Web Server installed on your machine, and if you wish to connect to a database you will need the database installed together with ODBC, JDBC or OCI drivers to enable you to connect to your database. This information is detailed in the Witango Installation Guide available under the heading [DOCUMENTATION](#) on the [documentation page](#).

STEP TWO - DOWNLOAD THE TUTORIAL

Witango Technologies Pty Ltd recommends that you download the Tutorial (available on the [downloads page](#)) if you are unfamiliar with Witango, this tutorial will walk you through the first steps to assist you in becoming familiar with the Witango programming style.

STEP THREE - LICENSE KEY FOR THE APPLICATION SERVER

The Witango 5.5 Server automatically installs in 30 day trial mode. With the absence of a commercial license key, all web pages served will have a small banner added to the bottom of the page stating that the software is in trial mode. This will not occur when a license key is purchased. Put simply, you do not have to do anything.

STEP FOUR - LICENSE KEY FOR THE STUDIO

The Witango 5.5 Standard Studio requires a license key to be entered to enable the application. To request a 30 day trial license key for the Standard edition of the Studio please complete the following form and Witango Technologies will email you within one business day the appropriate license key. A trial key will enable all features of the Witango 5.5 Studio Standard Edition for 30 Days.

Please note that Witango Technologies reserves the right to refuse any request for a lite or trial license key. Any request that is made with erroneous details or uses an anonymous email address (e.g. yahoo.com or hotmail.com), will be automatically rejected.

Items marked with an asterisk (*) must be completed.



Note This request is NOT immediately processed as Witango Technologies reserves the right to refuse any request for a trial license key. Any request that is made with erroneous details or uses an anonymous email address (e.g. yahoo.com or hotmail.com), will be automatically rejected. As a general rule only one request for a trial key per person will be processed. Each request will be processed on the next working day (Australian Time).

Obtaining LITE key



To request a LITE Key for Witango 5.5 Studio, visit witango.com and follow the FREE VERSION WITANGO LITE button. You will be taken to a page which outlines the steps to use Witango in LITE mode. Step 4 includes the form to request a LITE key. Complete the form and you will be emailed immediately a LITE license key.

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Witango LTE

Thank you for choosing Witango LTE for your web application. Set out below is a little information on Witango LTE and the steps we recommend that you take in order to successfully get started with Witango LTE.

The Witango LTE product suite is made up of two components:

- the Witango 5.5 Studio LITE edition** which is visual programming tool used to create your web application;and
- the Witango 5 Server LITE edition** which is the application server used execute your application.

What is the difference between Witango Dev Studio 5.5 Lite and Witango Dev Studio 5.5 Standard?

The Witango Dev Studio 5.5 Standard Edition is for professional developers. The Witango Dev Studio 5.5 Lite Edition is available free and does not have Java or .NET support. It also does not have a database. Checking or Java Compile enabled. Files created with the UI Designer will not be saved to a database.

What is the difference between Witango Server 5 LITE and Witango Server 5 Standard?

The Witango 5 Server LITE Edition is limited to 5 concurrent users. The Witango 5 Server Standard Edition is unlimited. Items marked with an asterisk (*) must be completed.

STEP FOUR - LICENSE KEY FOR THE STUDIO LITE EDITION

The Witango 5.5 Studio LITE requires a license key to be entered to enable the application to run.

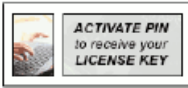
Please note that Witango Technologies reserves the right to refuse any request for a License Key if the user provides erroneous details or uses an anonymous email address (e.g. yahoo.com or hotmail.com).

Items marked with an asterisk (*) must be completed.

Request for Witango 5.5 Studio LITE edition license key

First Name	
Last Name	
Email Address	
Company Name	
Address	
City	
State	
Postal Code	

Obtaining a Standard Key



Standard keys for your Witango 5.5 Studio can be purchased from witango.com. Upon purchase you will be issued with a PIN. This PIN can then be activated on the witango.com website to receive your license key.

To activate your PIN, follow the **ACTIVATE PIN** button located on the homepage. You will then be taken to a login page where you can register as a user on the site, or, login using your existing registration details.



Note It is important that you use your correct details as this information is used to record ownership details of the product licensed and verify ownership for future upgrades. The email address you enter is where your license key will be sent to. Details cannot be changed online. If you require a change in registration details you will need to notify info@witango.com accordingly.

Upon successful login or registration you will be taken to a PIN Activation page where you simply enter your PIN, and, if the product being licensed is an upgrade, the license key being upgraded. Then push the **Activate my PIN** button and you will be sent via email your license key. You will also be mailed by post a Certificate of Registration.

Witango On-Line Store - PIN Activation

PIN Activation

By activating your Product Identification Number (PIN), you are registering with Witango Technologies that you/your company is the owner of the associated license. Licenses are non-transferable. Once activated, the license may not be transferred to another user or re-registered to another username. Upon activation the following will be triggered:

- the license key associated with the PIN will be emailed to the email address that is linked to your user account (this is shown below);
- Witango Technologies records will be updated to reflect your registration;
- if you are upgrading from a previous version the license key you enter to be upgraded will be flagged as such;
- You will be forwarded by mail a Certificate of Registration for this License.

Note: Your PIN may only be activated once. Once it has been activated, it is no longer valid and cannot be used again.

Your Email is currently set to: **<your email>**

PIN

CD/License Key (if upgrading)



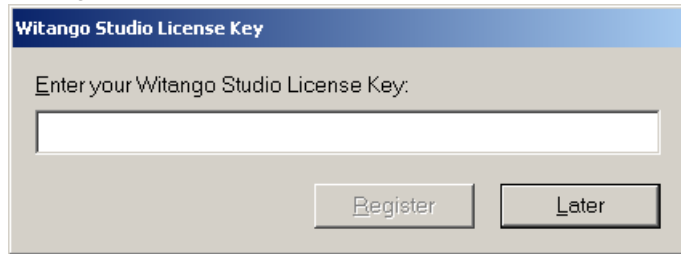
Note Please check that your email address shown on the PIN Activation screen (pictured above) is correct and current, as this is the email address where your license key will be sent.

Entering your Witango License Key

The first time you launch Witango Studio a window as shown below will appear requesting that you register your Studio license key. Press the **Register..** button to move to the License Key Window.



Enter the License Key in the Witango Studio License Key Window and Press the Register button.



Note You can copy your license key from the email sent to you when you activate your PIN and paste it into this window.

If the License Key is valid, Witango Studio will automatically launch in the mode corresponding the the license key entered.

Invalid License Keys

If the License Key you enter is not valid, a caution window will appear which states the same. This usually occurs when there is a typographical error in the license key. Click the **Yes** button to go back to the Registration Window where you can edit the license key entered.



Note If your license key is not being accepted please check that you are entering a Witango 5.5 license key, not a license key from an earlier version. Check 0(zero) is not being confused with O (uppercase o), and likewise for l(one) and I (lowercase L). The license key will always be in upper case. If you still have problems please email info@witango.com with details of your PIN.

What mode are you registered for?

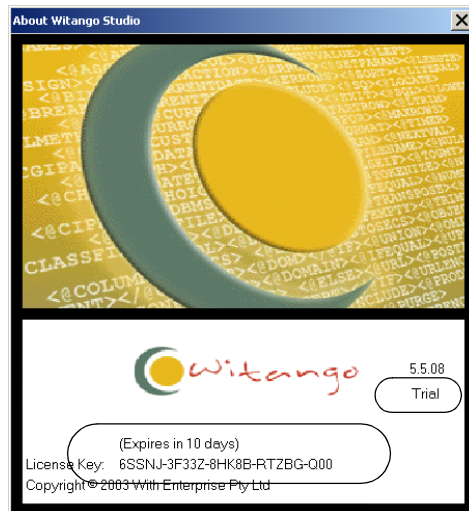
To determine what mode you are operating the Witango Studio in, select **About Witango Studio** from the **HELP** Menu.



The About Witango window will appear - this window will show you what mode the Studio has started up in.

Operating in Trial Mode

If you are operating in Trial mode, the word “Trial” will appear in the window and the number of days remaining until expiry will appear on screen.



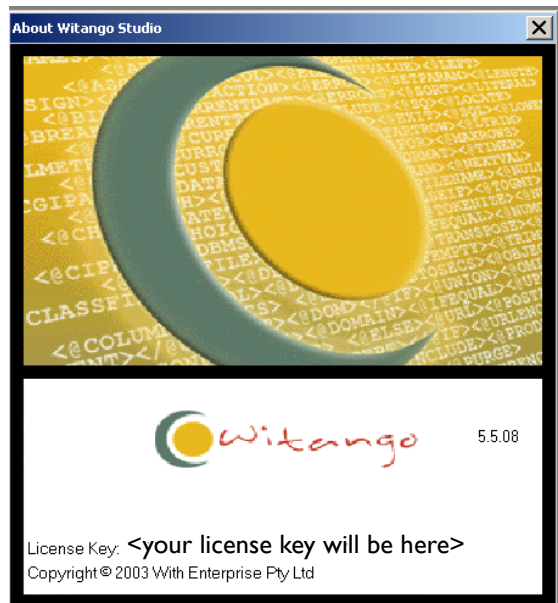
Operating in Lite Mode

If you are operating in LITE mode, the word “Lite” will appear in the window. Those functions which are only available in Standard or Trial mode will be disabled.



Operating in Standard Mode

If you are operating in Standard mode, there will be no mode shown on the About Witango window.

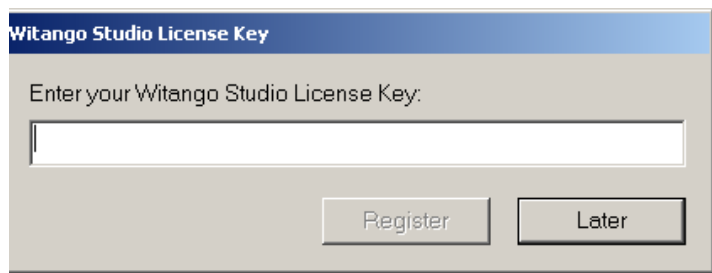


Changing your Witango License Key

You may wish to change your license key once entered, for instance, if you are going from LITE or Trial mode to Standard mode. To do this, select **Enter License Key** from the **HELP** Menu.



The Witango Studio License Key Window will appear where there is a field to enter your new License Key. Once the new license key has been entered, press **Register** to finish.



Configuring the Witango Studio for a JDBC driver

JDBC drivers may only be used once the Java 2 Runtime Environment (at least JVM 1.4.1) has been loaded by the Witango Studio. If the JVM fails to load so too will the JDBC interfaces fail to load and will not appear as a datasource type in the workspace.



Note The Java 2 Runtime Environment (at least JVM 1.4.1) can be downloaded from <http://java.sun.com>.



Note Before you will be able to configure a JDBC data source you will need to have the JDBC driver for your chosen database on your machine.

Configure the Classpath

The Witango Studio can only use a JDBC driver once the driver files have been added to the CLASSPATH of the Witango Studio.

Before you attempt to setup a JDBC connection you should consult the documentation that came from the supplier of the JDBC driver. It should as a minimum provide you with the driver class and connection string information. The connection string information should be used to form the URL to access the JDBC connection to the database.

e.g. A connection to a database using MySQL's Connector may have the following parameters:

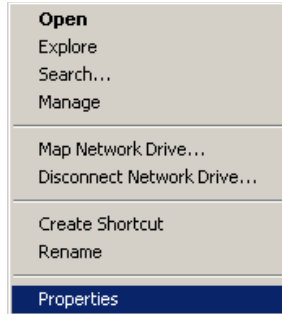
DriverClass	com.mysql.jdbc.Driver
Connection Type	jdbc.mysql
Host	127.0.0.1
Port	3306
Database Name	Testdb

To configure the CLASSPATH complete the following steps:

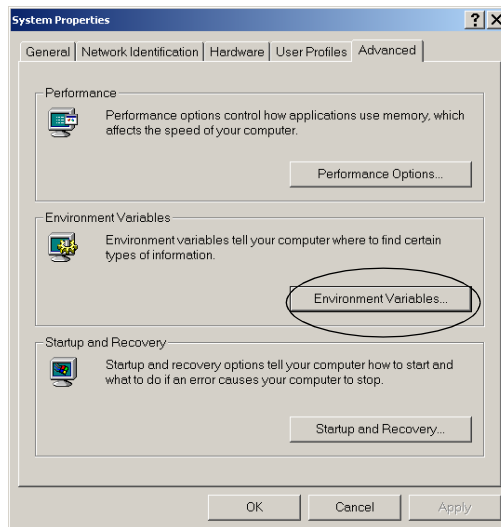
- I Quit the Witango Studio application.

2 Add the JAR file for your database driver to the class path in your environment variables.

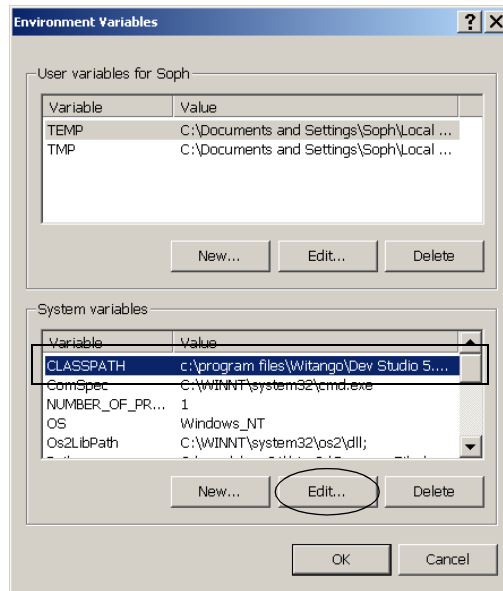
- Right-click on 'My Computer' and select **Properties** from the context sensitive menu that appears.



- The **System Properties** window will appear, move to the **Advanced** tab and click the **Environment Variables** button.



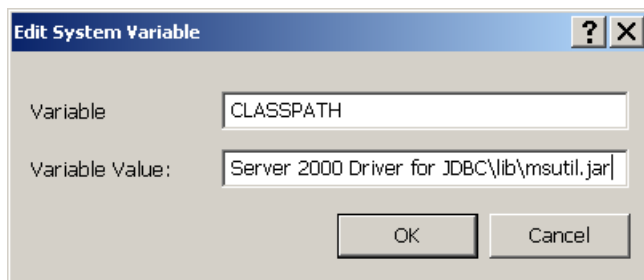
- The **Environment Variables** window will open, and in the **System Variables** pane you should see an entry for CLASSPATH. Select the **CLASSPATH** entry and click on the **Edit** button.



- The Edit System Variable window will open, you will need to edit the current variable value to include the path to all of the JDBC drivers (JAR files) you wish to use, each path in the list should be semi-colon separated.

For example:

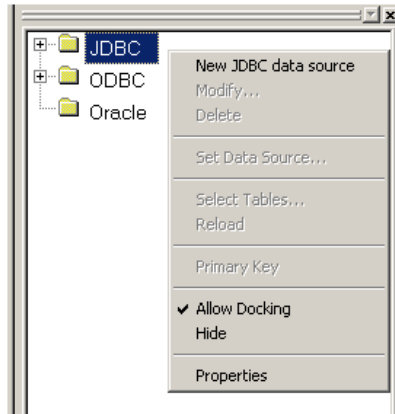
```
c:\program files\witango\jdbcdrivers\mysql-connector-java-2.0.14-bin.jar
```



- Click the **OK** button to confirm the changes.

3 Do one of the following:

- From the **DataSource** menu in the Witango Studio, select **New**, and then choose **JDBC**.
- Click the JDBC folder in the Workspace of the Witango Studio, and then right-click in the Workspace. Select **New** from the context-sensitive menu that appears.



- The JDBC Configuration dialog box appears:

JDBC Configuration	
Data Source	
Driver Class:	
URL:	
Properties:	
Name	Value
OK Cancel	

- 4 Complete the details in the JDBC ConfigurationWindow:
Datasource is the name of the datasource being created.

Driver Class is the reference to the JDBC and the exact text string will be included in the documentation for your JDBC Driver. Common ones have been included in a drop down menu for your convenience.



Note If you wish to add your common drivers to this drop down list, this can be done by adding the correct entry to the following file:
 C:\Program Files\Witango\Dev Studio
 5.5\Configuration\JDBCDriverClass.ini

Name	Value

- **URL** is the connection string to the database server. This will also be available in your driver documentation.

JDBC Configuration

Data Source:

Driver Class:

URL:

Properties:

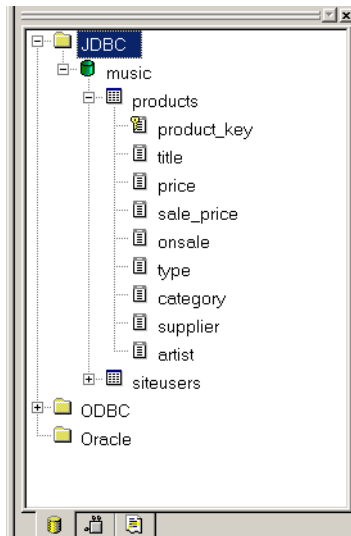
Name	Value

- Additional Properties required for the Connection can then be added in the Properties table.

5 Choose **OK**.

See your JDBC driver documentation for detailed configuration instructions.

The datasource should appear in the JDBC folder in your Workspace.



The jdbc.ini file

The `jdbc.ini` file is a simple XML structure. It's structure is outlined below.

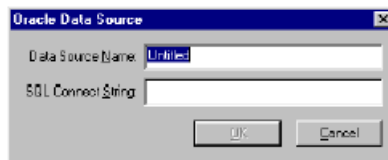
```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE JDBCINI SYSTEM "jdbcini.dtd" >
<JDBCINI Version="0x00010000">
  <DataSources>
    <DataSource ID="">
      <DSN></DSN>
      <DriverClass></DriverClass>
      <URL></URL>
      <Properties>
        <Property ID="">
          <Name></Name>
          <Value></Value>
        </Property>
      </Properties>
    </DataSource>
  </DataSources>
</JDBCINI>
```

Note: The Datasource ID is the same as the DSN name.

Note: The Property ID is the same as the Name value.

Configuring Witango Studio for Oracle Call Interface (OCI)

Please see your Oracle documentation for information on installing and configuring OCI Drivers. Once this has been done Witango Studio provides a graphical window to create your Oracle datasource.



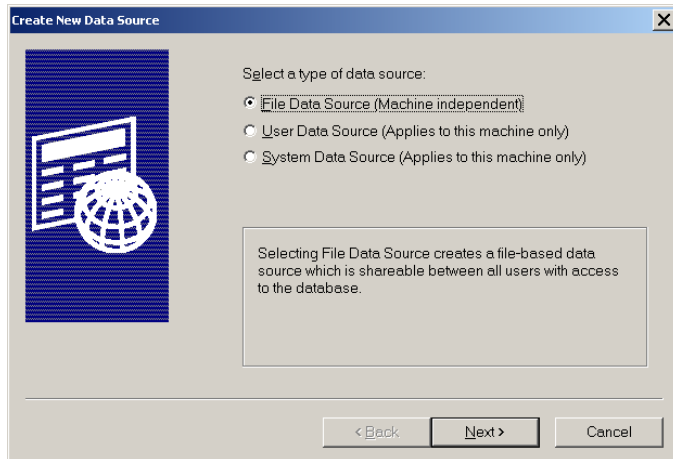
Configuring Witango Studio for ODBC

Please see your operating system documentation for information on installing and configuring your ODBC Driver Manager.



Note Before you create an ODBC data source, make sure the required ODBC drivers are installed and your database server is running (or, for drivers that access local files, your database files are available).

Once this has been done Witango Studio provides a menu to access this driver manager as shown below:



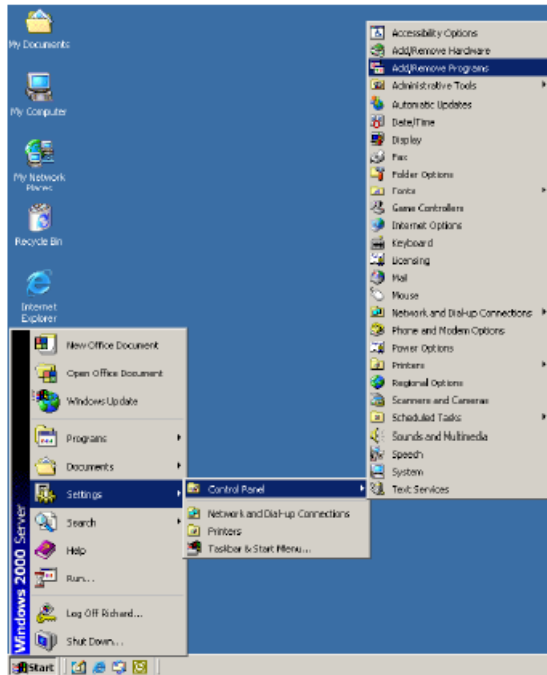
Note The dialog box appearing may look different. The appearance varies depending on the version of ODBC you have installed.

Removing the Witango Studio 5.5 Software

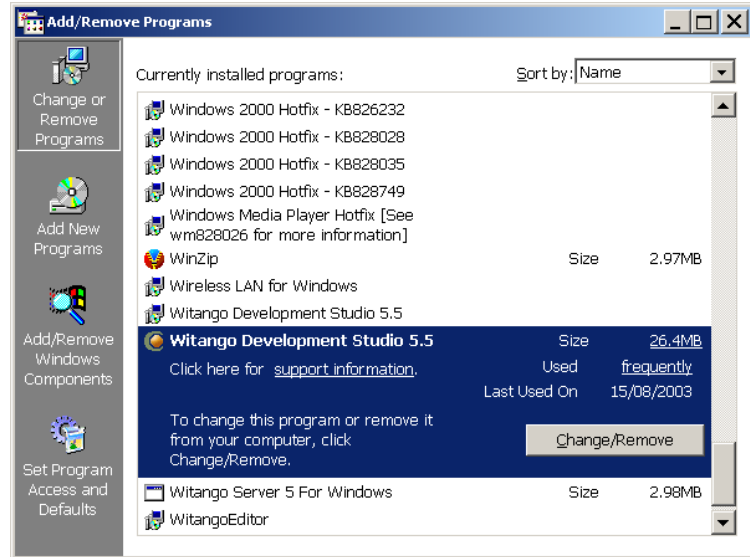
The Witango Studio 5.5 software should be uninstalled from your system using the built in Add/Remove Software functionality within Microsoft Windows. This process will vary slightly depending on the version of Windows that your system runs.

Removing under Windows 2000 or higher

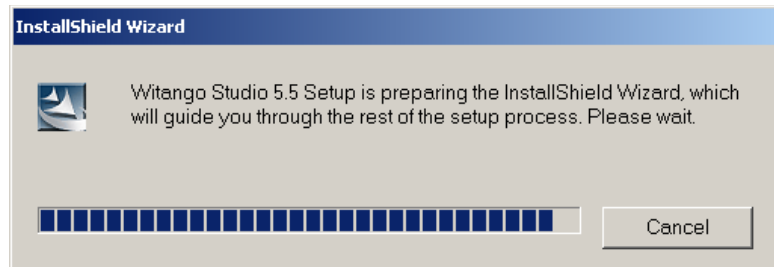
- I From the START menu select **Settings> Control Panel>Add / Remove Programs**



2 The Add/Remove Programs Window appears.

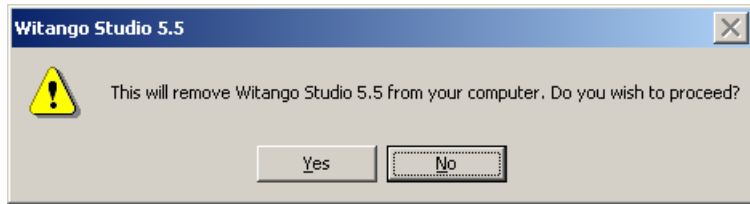


- 3 Click on **Change or Remove Programs** in the bar at the left of the window. Scroll down the list and select **WitangoEditor** Click **Change/Remove**.
- 4 The InstallShield Wizard will start up and display this screen. It will disappear after a few seconds.

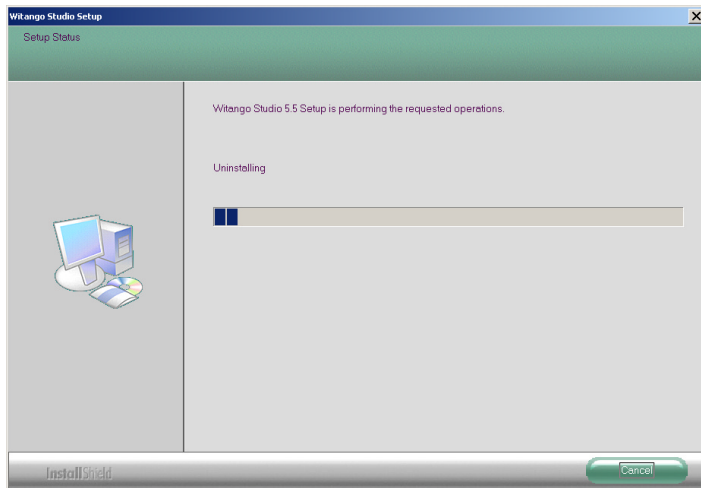


- 5 A dialog box will prompt you to ensure that you wish to continue the software uninstall. Either:
 - Click **Yes** to proceed with the software removal.

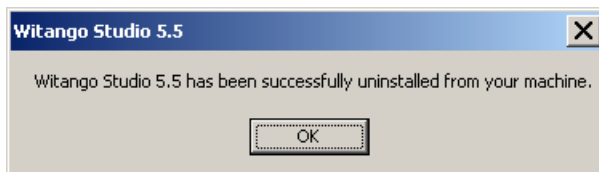
- Click **No** to cancel the software removal process and leave your system unchanged.



- 6 A screen showing the progress of the software uninstall will show while the Witango Studio 5.5 software is being removed.



- 7 Click **Cancel** to stop the software removal process and leave the software untouched.
- 8 Click **OK** to exit the InstallShield Wizard and return to the Windows Add/Remove utility Witango Studio 5.5 has been successfully removed from your computer.



Where to get help

Documentation for Witango is available in both PDF and HTML formats. The HTML versions of the **Studio Users Guide** and the **Programmer's Guide** are installed as part of the Witango 5.5 Studio install. These options can be found in the Witango HELP menu. A full list of current documentation in PDF format can be found on <http://www.witango.com/documentation>.

Studio Users Guide

The Studio Users Guide can be accessed by via the HELP menu within the Studio. This Guide contains all the information you need to be able to effectively use the Studio. This manual will give you an understanding of the layout of the development studio and what function each action performs. The manual covers the following topics:

- Introduction
- Using Projects and Source Control
- Using Data Sources
- Using Snippets
- Setting Preferences
- Working with Meta Tags
- Working With Variables
- Building Actions Using Witango Builders
- Configuring the Search Builder
- Configuring the New Record Builder
- Using Actions
- Grouping Actions
- Using Basic Database Actions
- Using Control Actions
- Extending Witango Functionality
- Sending Electronic Mail From Witango
- Reading, Writing, and Deleting Files
- Using Advanced Database Actions
- Understanding Objects in Witango
- Using Objects
- Witango Class Files
- Compiling Witango Application Files

Programmer's Guide

The Programmers Guide can be accessed by via the HELP menu within the Studio. This manual contains the meta language reference and all information that is required for day to day programming. The manual covers the following topics:

- Introduction
- Witango Studio Basics
- Meta Tags
- Custom Meta Tags
- Working With Variables
- Document Object Model
- Configuration Variables
- Witango Server Error Codes
- <@CALC> Expression Operators
- Lists of Meta Tags
- Using DLLs With Witango

Tutorials

Tutorials have been made available for both the Windows and the OS X Studios. When you have completed the tutorials, you should have a good grasp of the basics required to create web applications with Witango.

They consist of a pdf document, sample database files, sample data, example taf files and instruction notes. These tutorials are available from the documentation section of witango.com.

The tutorials are designed for absolute beginners although a basic understanding of HTML, Datasources, Databases and Web Servers would be an advantage.

Course Content

- **Tutorial A** - The lessons in this tutorial introduce you to the basics of developing a Witango application file. The concepts you learn include creating a dynamic web page, passing values within an application file, and setting up a database search.
- **Tutorial B** - The lessons in this tutorial show you how to create a data source. You need to create this particular data source to complete subsequent tutorials.
- **Tutorial C** - The lessons in this tutorial teach you about Witango builders and projects. You work with the Search Builder and New Record Builder to create Witango applications in which you insert new records, search for them, and display results. You also learn how to organize your Witango application files into projects.

- **Tutorial D** - The lessons in this tutorial teach you about personalization and saving user information. You learn how to create form fields for collecting user information. Then, you assign this information to variables so that it can be stored and referenced over multiple web pages.
- **Tutorial E** - The lessons in this tutorial show you how to make functional and stylistic enhancements to your application.
- **Tutorial F** - The lessons in this tutorial teach you how to create a secure login model for users of your web site.
- **Tutorial G** - The lessons in this tutorial show you how to create a Witango class file, which can be used in a number of different Witango application files. You then learn how to call a Witango class file's methods into your login model to search the record list.

Developer Resources

The developer resources listed below are available from the Developer Section of the Witango web site.

Witango-Talk List

You are encouraged to join the witango-talk list. Witango-Talk is a mailing list that is the ideal place to discuss your ideas with other Witango users. It is hosted by Witango Technologies but is an unmoderated list for the Witango community. It is also monitored by our technical support staff. To subscribe/unsubscribe to witango-talk list click [here](#) section describes each list To obtain a list of commands for the witango-Talk mailing list, send an e-mail message with the subject help to listserv@witango.com.

Mail List Archives

A searchable archive of the mail list that you can view as a threaded forum.

Metatags Online

A full searchable list of all the metatags in the Witango script language.

Component Zone

The component zone page is a list of sample Witango code. Why code from scratch? - use one of the components to kick start your project. The Component Zone is the place for Witango developers to publish tools, utilities, demos of your applications, documents and more.

Sample Code Modules

Complete mini applications to install and run without any programming. The sample modules are all wrapped up in a simple but highly secure shell that has group based permissioning. Sample modules include:

- Email Client
- Survey System
- Content Publishing System
- Mini CRM
- Threaded Forum with email feed

Feature Request/Report a Bug

The bug reporting system is your interface for requesting new features or reporting a bug in existing functionality.

Configuring Witango Server

Configuration variables set options in the Witango Server that control it's behaviour. You can set up all of your configuration variables using the witango administration web application. You can download the administration web application from the witango web site. You must know the correct password, which can be found in the Witango Server's `witango.ini` file. It is strongly recommended that you change the password for reasons of security, before the server is exposed to an intranet or the internet. You can change the password by stopping Witango Server and editing the value of the configuration variable `parameter, CONFIGPASSWD=` in the `witango.ini` file, located in the configuration folder which is in the folder where Witango Server is installed. This change takes place when you restart the Witango Server.

Annual Developers Conference

Every year, Witango hosts an 2 day developers conference for the developer community to gather and learn. This conference is known as CORROBOREE. Training courses at all levels are run in conjunction with this conference.

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