INFORMIX-Universal Web Connect

Installation Guide for Microsoft Windows NT

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In This Introduction

This chapter introduces the *INFORMIX-Universal Web Connect Installation Guide for Microsoft Windows NT*. Read this chapter for an overview of the information provided in this manual and for an understanding of the conventions used throughout.

About This Manual

This manual describes how to install INFORMIX-Universal Web Connect using the Universal Web Connect installation program. You should read this manual and the release notes before beginning the installation.

To use this manual, you should be familiar with your operating system. For information regarding your file system and windowing environment, see your operating system documentation.

This section describes the organization of the manual, the intended audience, and the associated software products you must have to install and use Universal Web Connect.

Organization of This Manual

This manual contains the following sections:

- This introduction provides an overview of the manual, describes the documentation conventions used, and explains the generic style of this documentation.
- Chapter 1, "Preparing to Install," describes the contents of the Universal Web Connect application package and the tasks you must perform before you install Universal Web Connect.

- Chapter 2, "Installing INFORMIX-Universal Web Connect," explains how to launch the installation program and describes the steps of the installation procedure.
- Chapter 3, "The Completed Installation," describes the Windows NT program group and postinstallation configuration tasks.

Types of Users

This manual is written for database administrators or Web site administrators who will install Universal Web Connect.

Software Dependencies

To use Universal Web Connect with other Informix products, you must use Informix Dynamic Server, Version 7.x, as your database server. You must also use INFORMIX-Client Software Developer's Kit, Version 2.01, connectivity software on your Windows NT system. Check your release notes for the database server, Web server, and Web browser versions that have been certified for this release.

See "Verifying Hardware and Software Requirements" on page 1-5 for additional requirements for the Universal Web Connect product components.

Documentation Conventions

This section describes the conventions that this manual uses. These conventions make it easier to gather information from this and other volumes in the documentation set.

The following conventions are covered:

- Typographical conventions
- Icon conventions

Typographical Conventions

This manual uses the following standard set of conventions to introduce new terms, illustrate screen displays, describe command syntax, and so forth.

Convention	Meaning
KEYWORD	All keywords appear in uppercase letters in a serif font.
italics	Within text, new terms and emphasized words appear in italics. Within syntax diagrams, values that you are to specify appear in italics.
boldface	Identifiers (names of classes, objects, constants, events, functions, program variables, forms, labels, and reports), environment variables, database names, filenames, table names, column names, icons, menu items, command names, and other similar terms appear in boldface.
`monospace`	Information that the product displays and information that you enter appear in a monospace typeface.
KEYSTROKE	Keys that you are to press appear in uppercase letters in a sans serif font.

Tip: *When you are instructed to "enter" characters or to "execute" a command, immediately press* RETURN *after the entry. When you are instructed to "type" the text or to "press" other keys, no* RETURN *is required.*

Icon Conventions

Comment icons identify warnings, important notes, or tips.

Icon	Description
	The *warning* icon identifies vital instructions, cautions, or critical information.
	The *important* icon identifies significant information about the feature or operation that is being described.
	The *tip* icon identifies additional details or shortcuts for the functionality that is being described.

This information is always displayed in italics.

Additional Documentation

The following manuals are included in the Universal Web Connect documentation set:

- *INFORMIX-Universal Web Connect Installation Guide for Microsoft Windows NT*
- *INFORMIX-Universal Web Connect User's Guide*
- Release notes

The Universal Web Connect documentation set includes an on-line user's guide in HTML format. You can view the user's guide using any standard Web browser. The table of contents file is located in the **\docs\iwcfhome.htm** file on the product CD-ROM. After installation, the table of contents file is located in the **%INFORMIXDIR%\uwc-doc\iwcfhome.htm** file, or in the directory you choose during the installation process.

The release notes are in the **NT\uwcread.txt** file on the CD-ROM. See "Starting the Installation" on page 2-3 for more information.

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Chapter

1

Preparing to Install

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In This Chapter

This chapter describes your installation options and lists the tasks you must complete before you install INFORMIX-Universal Web Connect.

Your Application Package

Your application package includes the Universal Web Connect product components delivered on a single CD-ROM. Use Universal Web Connect to build and manage your Informix Web database applications.

Universal Web Connect consists of a Web component, installed on your Web server system, and a database component, installed on your database server system. The Web and database components can be installed either on the same Windows NT system or on separate Windows NT systems.

The following table describes the Web component elements.

Element	Description
AppPage tags	A set of SGML-compliant tags for creating dynamic, intelligent Web applications without having to write external scripts in C or some other programming language. The HTML pages (known as *AppPages*) you create using these tags can extract from an Informix database not only text and numbers, but also multimedia content such as audio and video.
Universal Web Connect API	A C/C++ API that developers can use to extend the Web services of Universal Web Connect. A developer could, for example, use this API to develop e-commerce applications.
AppPage Builder	A sample Universal Web Connect application for creating and maintaining the AppPages that make up your Web applications. You can use it to create AppPages with any Web browser that supports forms and tables as defined in the HTML 3.0 specification. If you use a Web browser that supports client file upload, you can also use AppPage Builder to manage multimedia content in the Informix database.
Web drivers	A CGI, ISAPI, or NSAPI middleware application to integrate your Web server and database. The Web driver automatically manages multiple client connections, preserves the application state between browser sessions, manages database connections, and provides security services for your applications. You can extend these middleware functions and services with the Universal Web Connect API.

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Element	Description
Universal Web Connect Administration Tool (UWCAT)	An HTML client application to manage Universal Web Connect. It allows you to stop and start Universal Web Connect; edit the configuration file; show information on sessions, application configuration, and shared memory; and view the log file with filtering criteria.
Product documentation	In addition to this manual, the Universal Web Connect documentation set includes an on-line user's guide in HTML format.
Connectivity software	Connectivity software enables the Web component to communicate with the database component. On Windows NT, Client SDK provides connectivity between the Web and database component.

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The following table describes the database component element.

Element	Description
AppPage Builder database schema	A set of batch, executable, and data files that create a schema in an Informix database so that you can use AppPage Builder with that database.

Decide where to install each component according to your needs and the capabilities of your systems. See the next section to determine the hardware and software requirements for the Web and database components.

Verifying Hardware and Software Requirements

Since each configuration places different loading requirements on the system or systems involved, before you begin the installation, decide whether to install the Web and database components on the same Windows NT system or on separate Windows NT systems.

Any installation configuration you use in conjunction with Universal Web Connect for Windows NT requires the following hardware and software:

- Pentium processor or better

- Windows NT Version 4.0 or higher
- TCP/IP networking

Each installation option has its own hardware requirements.

Web Component

Hardware and software requirements for the Web component are:

- 24 MB of memory minimum; 32 MB or more recommended.
- A recommended virtual memory system setting of 80 to 96 MB.

Database Component

The hardware requirement for the database blobspace is 50 MB of hard disk space.

Installing Connectivity Software

You must install and configure Client SDK, Version 2.01, on any system on which you plan to install the Web component, if it is not already installed.

To install Client SDK

1. Find the Client SDK directory on the CD-ROM and run the **Setup** program to install Client SDK. Choose the Custom Install Setup Type and the INFORMIX-Connect and INFORMIX-ESQL/C Install Components.
1. Use SetNet32 to properly configure the Web server and database server systems.
1. Reboot your system and proceed with the installation of Universal Web Connect.

See the *Informix Client Products Installation Guide for Microsoft Windows Environments* for more information.

Preparing the Database Server

The installation program creates the AppPage Builder schema for the database component on your database server.

You must already have an Informix database server installed and running on the target system.

Install Universal Web Connect while logged on to the same user account under which the services will be running. The user installing Universal Web Connect on Windows NT must have administrator privileges on that system.

If you have not yet created a repository database on your database server, the Universal Web Connect installation program can create one. Before installation, the user installing the services and the default user must be configured to use the Client SDK connectivity software on the system where Universal Web Connect is being installed. If the user cannot successfully connect to the database, the installation program will be unable to create the repositories.

Be sure the repository database has buffered logs enabled and, prior to installing Universal Web Connect, back up the logical-log files. If your log files do not have enough room to accommodate all of the transactions, parts of the installation program fail.

To check the status of the logical-log files on your database server

1. Launch **Command Center** from the Informix Administration Tools program group.
1. Double-click the **Alerts** icon.
1. Click the **Details View** button to look at the alerts, if any.

1. If one of the alerts refers to "Logical Log Capacity at XX%," then:
   a. in the **Command Center**, select the database server that contains the logical logs to be backed up.
   b. double-click the **Start Backup and Restore** icon.
   c. select the **Back up Logical Log** option and click **Finish**. The logical-log backup begins. The **Backup and Restore** program displays the status of the backup, and a message appears when the backup is complete.

   Remain in the same server mode until the backup is complete. If you change the mode in the middle of a backup, the backup terminates.
1. If other processes are in the queue, you are prompted to place the logical-log backup in the queue. Click **Yes** to place the backup in the queue. Click **No** to cancel.

Preparing the Web Server

If you are running Netscape FastTrack Server, Netscape Enterprise Server, or Microsoft Internet Information Server, the installation program detects it and automatically configures the execution, or **ifmx-bin**, directory.

Important: *If you intend to install Universal Web Connect on a Web server other than a Microsoft or Netscape server, you must shut down the Web server before you start the installation program. Additionally, if you are using another Web server, you must configure the CGI directory and CGI prefix manually after you have completed the installation.*

You must configure a document directory for the Universal Web Connect Administration Tool after you have completed the installation. See "Configuring Web Server Directories" on page 3-7 for instructions.

After it detects the Web servers on your system, the installation program prepares to support the appropriate middleware. The following table describes the types of Web drivers Universal Web Connect supports.

If you are using this Web server…	You can provide support for this Web driver…
Netscape FastTrack or Enterprise Server	CGI, NSAPI
Microsoft Internet Information Server	CGI, ISAPI
Other	CGI

Chapter

2

Installing INFORMIX-Universal Web Connect

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In This Chapter

This chapter describes how to install and uninstall INFORMIX-Universal Web Connect.

You must run the installation program on each system on which one or both components of Universal Web Connect will run.

Install the components in the following order:

1. Database component
1. Web server component

Tip: *During installation, Universal Web Connect writes status messages to the* ***%INFORMIXDIR%\APB\STATUS.LOG*** *file and error messages to the* ***%INFORMIXDIR%\APB\ERR.LOG*** *file. If you encounter any errors during installation, check these log files before attempting to reinstall.*

Starting the Installation

This section describes how to launch the installation program, enter registration information, and choose your installation type.

To start the installation

1. Insert the CD-ROM in the CD drive.
1. Display the CD-ROM drive files in Windows Explorer.
1. Exit all other Windows programs.
1. Double-click **Setup**.

   The **Setup** program begins, and the Welcome to INFORMIX-Universal Web Connect page appears.

1. Click **Next**.

   An Information page appears describing preinstallation tasks.

1. Complete the preinstallation tasks, if necessary, and click **Next**.

   The Enter Serial Number and Key page appears.

1. In the Enter Serial Number and Key page, type the serial number and key exactly as they appear on the registration card contained in your license envelope.

1. Click **Next**.

   If an error message appears, make sure you typed the serial number and key exactly as they appear on the registration card, including case and symbols such as #.

1. Click **Next**.

   The Enter Registration Information page appears.

1. Type your information in the fields.

   You must enter values in the **Name** and **Organization** text boxes.

1. Click **Next**.

   The Choose Installation Type page appears. In the Choose Installation Type page, choose one of the two installation options:

   - **Express**. This option installs both components, using default settings for a new installation and current settings for an upgrade or reinstallation. To use this option, you must have a database server and a Web server on the same system on which you are installing Universal Web Connect.
   - **Custom**. This option allows you to choose which components to install and to customize settings.

1. Click **Next**.

   Complete the express installation, as described in the next section, or the custom installation, as described in "Completing a Custom Installation" on page 2-6.

Completing an Express Installation

The express option installs the Web and database components onto the same system. If this is the first time you are installing Universal Web Connect on this system, the express option uses default settings, listed in the following table.

Information	Value
Component directory	%INFORMIXDIR%\BIN
User name	informix
Password	informix
Database server	%INFORMIXSERVER%
Database name	UWC
Blobspace directory	%IFMXDATA%*ol_servername*
Blobspace name	APB_BLOB

If you have previously installed Universal Web Connect on this system, the existing settings are used, and all products are reconfigured as described in "Upgrading or Reinstalling Universal Web Connect" on page 2-9.

To complete the express installation

1. If you have more than one Netscape Web server, the Choose Netscape Web Server page appears. Select the server on which you want to install Universal Web Connect and click **Next**.
1. The Installation Information Summary page appears, showing the components to install and the setting values. Click **Next** if the information is correct.

   A progress bar appears showing the progress of the installation.

   The Setup Complete page appears.
1. Check the box if you want to view the **Release Notes** file; then click **Finish**.

   The Restart Computer page appears.

1. Click **Yes** or **No**. You should select **Yes** so that the configuration changes made by the installation program take effect immediately.

After completing these steps, installation is complete. See Chapter 3, "The Completed Installation," for information on configuring and starting Universal Web Connect.

Completing a Custom Installation

A custom installation allows you to choose:

- which components to install.
- where to put product files and the data repository.
- how to configure components.
- how to upgrade or reinstall components.

Additionally, you must perform certain tasks depending on which components you plan to install. These tasks are outlined in the following sections.

Tasks for the Web Component

The tasks you need to complete when installing the Web component are:

1. choosing which Web server to use with Universal Web Connect.
1. choosing which Netscape Web server to use, if you have more than one.
1. choosing the destination directory for the Web driver.
1. choosing whether to reconfigure or copy over files, if you are upgrading or reinstalling.
1. completing the Universal Web Connect Administration Tool configuration.
1. specifying a directory for the Universal Web Connect documentation.
1. finishing the installation.

Tasks for the Database Component

The tasks you need to complete when installing the database component are:

1. choosing whether to reconfigure or copy over files, if you are upgrading or reinstalling.
1. specifying where to create the Universal Web Connect repository.
1. finishing the installation.

In the following sections, icons identify whether a task must be completed for the Web component, the database component, or both.

Choosing the Universal Web Connect Destination Directory

Both Components

This section explains how to choose a directory for the Universal Web Connect files.

To choose the destination directory of the Universal Web Connect files

1. In the Choose Destination Directories for the INFORMIX-Universal Web Connect page, the directory in which your Informix products are currently installed is displayed by default. Click **Browse** to choose a different directory.

   If you are not sure which directory you need, look at the **INFORMIXDIR** environment variable in SetNet32.

   If you choose a directory that is different from the default Informix directory, a Warning page appears. When choosing an installation directory, you are setting the **INFORMIXDIR** environment variable to that directory. Therefore, if you install Universal Web Connect in a directory different from the directory where other Informix products are installed, those products might no longer work.

1. Click **Next**.

   The Select Components page appears.

Choosing Components to Install

Both Components

You can choose which of the Universal Web Connect components, and their elements, to install. The elements provided by each of the Web and database components are listed in the section "Your Application Package" on page 1-3.

To select which elements to install

1. In the Select Components page, select the elements you want to install. You can select any combination of the **Web Files** or **Database Files** elements.

   If you select **Web Files**, element options appear, including:

   - Web drivers corresponding to the Netscape and Microsoft Web Servers the installation program detects on your system.
   - the CGI Web driver.
   - the Universal Web Connect Administration Tool.

   You can select any combination of these element options.

1. Click **Next**.

1. If you are installing the Web component and your Web servers are running, a Question page asks if you want to shut them down. Click **Yes** to shut down the Web servers. Click **No** to cancel the installation.

   The next few dialog boxes you see depend on which components you are installing:

   - If you are upgrading the database component, the INFORMIX-UWC Reconfigure Options page appears. See "Upgrading or Reinstalling Universal Web Connect" on page 2-9 for instructions.
   - If you are installing the database component for the first time, the Specify Universal Web Connect Repository page appears. See "Specifying the Universal Web Connect Repository" on page 2-11 for instructions.

Choosing the Netscape Web Server

Web Component

If you are installing the Web component and have more than one Netscape server installed on your system, you must choose which one to use for your Universal Web Connect applications.

To choose the Netscape Web server to use with Universal Web Connect

1. In the Choose Netscape Web Server page, select a server.
1. Click **Next**.

   The Choose Destination Directory for Web Driver page appears.

Choosing the Web Driver Destination Directory

Web Component

Although it provides support for Netscape FastTrack Server, Netscape Enterprise Server, and Microsoft Internet Information Server, Universal Web Connect can be used with any Web server.

To choose the Web driver destination directory

1. In the Choose Destination Directory for Web Driver page, the default directory is shown. Click **Browse** to select a different directory.
1. Click **Next**.

   If you install the CGI Web driver, a message box appears to remind you to reconfigure your CGI prefix. See "Configuring Web Server Directories" on page 3-7 for instructions.
1. Click **OK**.

   The next page you see depends on whether you are installing Universal Web Connect for the first time or upgrading it:

   - If you are installing for the first time, the Configuring the UWC Administration Tool page appears. See "Configuring the Universal Web Connect Administration Tool" on page 2-10 for instructions.
   - If you are upgrading, the INFORMIX-UWC Reconfigure Options page appears.

Upgrading or Reinstalling Universal Web Connect

Both Components

The installation program checks to see if Universal Web Connect has already been installed and configured on your system. If it has been installed, the INFORMIX-UWC Reconfigure Options page appears and provides you with these options:

- Reinstalling and reconfiguring Universal Web Connect

  This option erases the existing Universal Web Connect configuration and reinstalls and reconfigures the product. This process disables applications that were built and installed to run with the existing version of Universal Web Connect.

  In addition, AppPages in the Universal Web Connect repository are deleted.

- Copying the new files without reconfiguring

  This option updates the binary executables, dynamic link libraries, and other files used by Universal Web Connect and leaves the repository and configurations intact.

To upgrade Universal Web Connect

1. In the INFORMIX-UWC Reconfigure Options page, choose an upgrade option.
1. Click **OK**.

   The next page you see depends on the component you are installing:

   - If you are installing Web component, the UWC Admin Tool Configuration page appears.
   - If you are installing the database component, the Specify Universal Web Connect Repository page appears. See "Specifying the Universal Web Connect Repository" on page 2-11 for instructions.

Configuring the Universal Web Connect Administration Tool

Web Component

You can specify the user name and password that users of the Universal Web Connect Administration Tool can use when they log on.

To configure the Universal Web Connect Administration Tool

1. In the UWC Admin Tool page, the default user name and password are shown. If you want users of the UWC Administration Tool to use a different user name and password, type new ones in the appropriate text boxes.

1. Click **Next**.

   The next page you see depends on the components you are installing:

   - If you are installing the Web component, the Copy Universal Web Connect Documentation page appears. See "Choosing the Documentation Destination Directory" on page 2-12 for instructions.
   - If you are installing the database component, the Specify Universal Web Connect Repository page appears.

Specifying the Universal Web Connect Repository

Database Component

To run AppPage Builder, you must install the AppPage Builder schema in your database repository.

To create the Universal Web Connect repository

1. In the Specify Universal Web Connect Repository page, the default blobspace is shown. If you want to install using a different blobspace, type the name in the **Blob name** text box.
1. In the **Directory** text box, the default directory is shown. If you want the blobspace to reside in a different directory, type the directory in the **Directory** text box.
1. Click **Next**.

   The next page you see depends on which components you are installing:

   - If you are installing the Web component, the Copy Universal Web Connect Documentation page appears.
   - If you are installing the database component, the Installation Information Summary page appears. See "Finishing the Installation" on page 2-13 for instructions.

Schema creation can fail if one of the initial criteria for establishing the database server and connectivity set forth earlier in this manual is not met.If the installation fails while creating the AppPage Builder schema, you should reinstall the product. However, it is possible to rerun the schema setup without running the installation program by executing a Windows NT Batch (**.BAT**) program, called **SETUPAPB.BAT**, residing in the **%INFORMIXDIR%\APB** directory.

To rerun repository configuration after an unsuccessful installation

1. Launch the INFORMIX Command-Line Utilities program by choosing it from **Informix Administration Tools→Programs** in the on Windows NT Start Menu.
1. Move into the **APB** subdirectory in the **INFORMIXDIR** directory:

   ```
   cd %INFORMIXDIR%\APB
   ```
1. Execute the **SETUPAPB.BAT** batch file:

   ```
   SETUPAPB dbname blobdir blobspace dbspace user password
   ```

   The arguments are described in the following table.

Argument	Description
dbname	The name of the database for which you want to configure the Universal Web Connect repository. For example: `stores7`
blobdir	The pathname for the blobspace data directory for the Universal Web Connect repository. This should be the same location as the dbspace for the database you are configuring to hold the Universal Web Connect repository. **SETUPAPB** will pass this information to the ONCONFIG utility for creating the blobspace. For example: `C:\IFMXDATA\ol_workgroup`
blobspace	The name for the blobspace that will hold the large objects. For example: `APBBLOB, UWCBLOB`

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Argument	Description
dbspace	The name of the dbspace that will contain the database you are configuring to hold the Universal Web Connect repository. For example: `ol_workgroup, ol_department`
user	The user name that **SETUPAPB** will use to connect to the Informix server and database specified for creating the blobspace and schema objects, as well as loading the AppPage Builder application into the repository.
password	The password associated with the user name for connecting to the Informix server and database specified.

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All of these arguments must be specified with the **SETUPAPB** batch program for it to work correctly.

Choosing the Documentation Destination Directory

Web Component

You can specify the directory in which to place documentation for Universal Web Connect.

To specify the destination directory for Universal Web Connect documentation

1. The Copy Universal Web Connect Documentation page shows the default directory for the documentation, **%INFORMIXDIR%\uwc-doc**. Click **Yes** to install the documentation in this directory. Click **No** to choose a different directory.
1. If you are choosing a different directory, the Documentation Destination Directory page appears. Click **Browse** to choose a directory.
1. Click **Next**.

   The Installation Information Summary page appears.

Finishing the Installation

This section describes the final tasks you need to complete to successfully install Universal Web Connect.

To finish the installation

Both Components

1. The Installation Information Summary page describes your installation choices. If they are correct, click **Next**.

   A series of message boxes and pages appear as the installation program completes each step, including shutting down the Web and database servers.

Web Component

1. The installation program checks if a current or previous version of Client SDK exists on the system. If one exists, an information page appears, warning you that another version is detected:

   - Click **No** if your currently installed Client SDK software is Version 2.01 or higher and you do not want to reinstall Client SDK.
   - Click **Yes** if you have an earlier version of Client SDK installed to ensure that Universal Web Connect has the connectivity software it needs to function properly.

Database Component

1. If your logical log capacity is low, an information page appears, instructing you to back up your logical log. See "Preparing the Database Server" on page 1-7 for instructions. Click **OK** when you are finished.

Both Components

1. The Setup Complete page gives you the option of reading the **Release Notes** file. Uncheck the check box if you do not want to read the **Release Notes** file.
1. Click **Next**.

   The Restart Computer page appears.
1. Click **Yes** or **No**.

   You should select **Yes** so that the configuration changes made by the installation program take effect immediately.

After completing these steps, installation is complete. See Chapter 3, "The Completed Installation," for information on configuring and starting Universal Web Connect.

Uninstalling Universal Web Connect

To uninstall Universal Web Connect, you must:

- remove the product files.
- edit your Netscape server configuration file. If you configured your Netscape server to use Universal Web Connect, you will not be able to restart your Netscape server until you edit this file.

Uninstalling Universal Web Connect removes the product files but does not delete the AppPage Builder schema within the repository database. The old schema is automatically deleted when you reinstall Universal Web Connect.

To remove the Universal Web Connect product files

1. Select INFORMIX-Universal Web Connect from the Add/Remove Programs applet in the Control Panel.
1. Click **Remove**.

   A dialog box appears, confirming your request to delete the product files.
1. Click **OK**.

Your Universal Web Connect installation is removed.

To edit your Netscape server configuration file

1. Open the Netscape server configuration file, **obj.conf**.
1. Remove the lines in the file that are surrounded by these comments:

```
    ############  Inserted by Universal Web Connect: Begin ############
...
    ############  Inserted by Universal Web Connect: End ############
```

After completing these steps, you can restart your Netscape server.

Chapter

3

The Completed Installation

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In This Chapter

This chapter describes the INFORMIX-Universal Web Connect program group and the tasks you must complete before starting the Universal Web Connect services.

The INFORMIX-Universal Web Connect Program Group

After you install the software, the Universal Web Connect program group is available in Windows Explorer. The program group includes icons for the following items:

- UWC release notes
- UWC Service Manager
- UWC Administration Tool
- UWC documentation

Postinstallation Tasks

Before you start the Universal Web Connect services, you must configure:

- connectivity software.
- Universal Web Connect services.
- the Web server for which you installed a Web driver.

Configuring Connectivity Software

You must set up TCP/IP services for connectivity software to work properly.

To configure Client SDK

1. Open the file **%windir%\SYSTEM32\DRIVERS\ETC\SERVICES**.
1. Add the following line to the file:

```
turbo  1526/tcp  #INFORMIX-OnLine Servers
```

See the *Informix Client Products Installation Guide for Microsoft Windows Environments* for more information.

Configuring the Universal Web Connect Service

The services that Universal Web Connect uses are:

- Informix Dynamic Server
- Netscape Web servers, Microsoft Internet Information Server, or other Web server
- INFORMIX-Universal Web Connect

Before you run Universal Web Connect, be sure you have configured it and all related services to run under a user account. This avoids any potential interprocess communication problems related to security and access rights. This user must be a member of the Administrators group and have rights to log on as a service.

If you do not run the services under a user account, the error message `-406 Memory Allocation Failed` appears when other applications attempt to access the Informix database after Universal Web Connect has accessed it. Universal Web Connect will still be able to access the database without errors.

To configure the Universal Web Connect Service

1. Double-click **Services** in the Control Panel.

   The Services dialog box appears.
1. Select **INFORMIX-Universal Web Connect**.
1. Click **Startup**.

   The Service dialog box appears.

1. In the **Startup Type** group, click the **Automatic** option button.
1. In the **Log-On As** group, click the **This Account** option button.
1. Type the user name and password for the account in the appropriate text boxes.
1. Click **OK**.

Configuring Your Web Server

This section explains how to configure your Web server to work with Universal Web Connect. The server you configure depends on which Web drivers you installed.

Configuring Your Netscape FastTrack Server

If you installed the NSAPI Web driver to use with Netscape FastTrack Server, you must specify the user name and password for the Windows NT account under which you want Netscape FastTrack Server to run.

Important: *Before making any changes to your Netscape FastTrack Server, back up your Netscape FastTrack Server* ***obj.conf*** *configuration file.*

To configure Netscape FastTrack Server

1. In the server administration screen, click the **System Settings** option.

   The Network On / Off dialog box appears.
1. Double-click **Network Settings**.

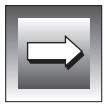
   The Network Settings dialog box appears.
1. Enter the user name and password for the Windows NT account under which you would like Netscape FastTrack Server to run. Use the same user name and password you used when installing Universal Web Connect.
1. Click **OK**.

   The Save and Apply Changes dialog box appears.
1. Click **Save and Apply**.

   The Saving Change box appears. The **Administration** program saves your changes.

Configuring Your Netscape Enterprise Server

If you installed the NSAPI Web driver to use with Netscape Enterprise Server, you must specify the user name and password for the Windows NT account under which you want Netscape Enterprise Server to run.



Important: *Before making any changes to your Netscape Enterprise Server, back up your Netscape Enterprise Server* ***obj.conf*** *configuration file.*

To configure Netscape Enterprise Server

1. Double-click **Services** from the Control Panel.

   The Services dialog box appears.

1. Select **Netscape Enterprise Server 3.0** ***server_name***.
1. Click **Startup**.

   The Service dialog box appears.

1. In the **Startup Type** group, select the **Automatic** option button.
1. In the **Log-On As** group, select the **This Account** option button.
1. Enter the same user name and password you used when installing Universal Web Connect.
1. Click **OK**.

Configuring Your Microsoft Internet Information Server

If you installed the ISAPI Web driver to use with Microsoft Internet Information Server, you must set the user name and password to the Universal Web Connect account and specify the number of user connections.

Important: *To provide an adequate number of user connections, Microsoft Internet Information Server must be running on a Windows NT Server rather than a Windows NT Workstation.*

To configure Microsoft Internet Information Server

1. In the Microsoft Internet Service Manager pane, select the computer with the WWW service.
1. From the menu bar of the Microsoft Internet Service Manager pane, choose **Properties→Service Properties**.

   The WWW Service Properties dialog box appears.

1. In the WWW Service Properties dialog box, type the same user name and password you used when installing Universal Web Connect.
1. Click the **Advanced** tab.
1. In the Advanced page, set the appropriate parameters for the number of users.
1. Click **OK**.

Configuring Web Server Directories

If you installed the Universal Web Connect Administration Tool, you must configure a document directory for it.

To configure the document prefix and directory for the Administration Tool on-line help

1. In your Web server manager document screen, set the URL prefix to `/uwcat`.
1. Set the directory to the **ifmx-bin\html** subdirectory under the actual directory where Informix products are installed, for example:

```
D:\informix\ifmx-bin\html
```

If you installed the CGI Web driver, you must configure an execution directory for the Web server manually.

To configure the CGI prefix and directory for your CGI Web driver

1. In your Web server manager CGI screen, set the URL prefix to `/ifmx-bin`.
1. Set the CGI directory to the **ifmx-bin** subdirectory under the actual directory where Informix Web products are installed, for example:

```
D:\informix\ifmx-bin
```

Starting the Universal Web Connect Service

Start Universal Web Connect using either the Universal Web Connect Administration Tool or by entering the command:

```
wcinit -i
```

To verify your installation, connect to AppPage Builder by entering either the CGI Web driver URL:

`http://myhost:myport/ifmx-bin/wcdrvr.exe/wcdaemon.exe`

the NSAPI Web driver URL:

`http://myhost:myport/ifmx-bin/wcnsapi.dll/wcdaemon.exe`.

or the ISAPI Web driver URL:

`http://myhost:myport/ifmx-bin/wcisapi.dll/wcdaemon.exe`.

See the "Getting Started" section of the *INFORMIX-Universal Web Connect User's Guide* for introductory information on using Universal Web Connect. See "Additional Documentation" on page 6 for the location of on-line documentation.