

FileMaker® Server 7 Advanced

Web Publishing Installation Guide



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Chapter 1

Before you begin

Welcome to FileMaker® Server 7 Advanced, which includes the Web Publishing Engine and support for Open Database Connectivity (ODBC) and Java Database Connectivity (JDBC). The Web Publishing Engine provides Instant Web Publishing and Custom Web Publishing with XML or XSLT for FileMaker Server. For information on ODBC and JDBC, see the *FileMaker ODBC and JDBC Developer's Guide*.

Using FileMaker Server documentation

This *FileMaker Server Advanced Web Publishing Installation Guide* describes how to install and configure the Web Publishing Engine on Windows and Mac OS X computers.

The *FileMaker Server Advanced Custom Web Publishing Guide* describes how to develop FileMaker XSLT stylesheets, use the Web Publishing Engine to publish your databases using XML or XSLT, and convert CDML solutions to FileMaker XSLT.

The *FileMaker Instant Web Publishing Guide* describes how to make FileMaker Pro databases accessible to web browser users over an intranet or the Internet.

Installing FileMaker ODBC and JDBC Client Drivers describes how to install driver files for using FileMaker Pro with ODBC and JDBC applications.

The *FileMaker ODBC and JDBC Developer's Guide* describes how to use ODBC and JDBC with FileMaker products.

The *FileMaker Server Administrator's Guide* and FileMaker Server Admin Help describe how to install and configure FileMaker Server.

The *FileMaker Security Guide* describes security concerns to keep in mind when using FileMaker products.

Note Portions of this documentation referring to FileMaker Server 7 Advanced features such as web publishing and ODBC/JDBC only apply to FileMaker Server 7 Advanced licensed customers.

Important You can download PDFs of FileMaker 7 documentation from www.filemaker.com. Any updates to this document are also available from the web site.

Customer support

For information about technical support and customer service, see:

www.filemaker.com (North American customers)

www.filemaker.com/intl (customers outside North America)

or choose Help menu > FileMaker on the Web (Mac OS), or the “FileMaker web resources” topics in FileMaker Server Help (Windows). At the web site, you will find the service options available to North American customers, as well as links to FileMaker worldwide sites, answers to frequently asked questions, and access to the TechInfo Knowledge Base. If you do not have access to the web, please refer to the FileMaker Service Directory included in the software box. North America customers can also call (800) 965-9090 to learn about the service options available.

About the license key

To use the Web Publishing Engine, you must purchase and install a FileMaker Server Advanced license key. Although you can install the Web Publishing Engine software without a license key, FileMaker Server will not allow the Web Publishing Engine to connect without a FileMaker Server Advanced license key.

If you purchased FileMaker Server Advanced, you can enter the license key during FileMaker Server installation. If you purchased FileMaker Server Option Pack, you must update the license key after FileMaker Server installation. For information on installing FileMaker Server or updating the FileMaker Server license key, see the *FileMaker Server Administrator's Guide*.

Note Only one Web Publishing Engine is allowed with each copy of FileMaker Server.

Hardware and software requirements

To install and use the Web Publishing Engine and associated tools, you need the CD-ROM in the FileMaker Server package and the following minimum equipment and software:

Windows requirements for the Web Publishing Engine

Minimum requirements for 1-50 clients

- Intel-compatible PC with a Pentium III 1 GHz processor
- 256 MB of installed RAM
- hard disk with at least 500 MB of available disk space
- CD or DVD drive
- Windows Server 2003 Standard Edition or Windows 2000 Server (with Service Pack 4) operating system
- Microsoft Internet Information Services (IIS) (5.0 for Windows 2000 Server) (6.0 for Windows Server 2003)

- Java 2 Platform, Standard Edition (J2SE) 1.4.2 Windows (automatically installed with the Web Publishing Engine)
- network connectivity to the Internet or an intranet via TCP/IP

Minimum requirements for more than 50 clients

- Intel-compatible PC with a Pentium 4 2 GHz processor
- 512 MB of installed RAM (1 GB or more recommended)
- hard disk with at least 1 GB of available disk space
- CD or DVD drive
- Windows Server 2003 Standard Edition or Windows 2000 Server (with Service Pack 4) operating system
- Microsoft Internet Information Services (IIS) (5.0 for Windows 2000 Server) (6.0 for Windows Server 2003)
- Java 2 Platform, Standard Edition (J2SE) 1.4.2 Windows (automatically installed with the Web Publishing Engine)
- network connectivity to the Internet or an intranet via TCP/IP

Mac OS requirements for the Web Publishing Engine

Minimum requirements for 1-50 clients

- Apple G4 500 MHz
- 256 MB of installed RAM
- hard disk with at least 500 MB of available disk space
- CD or DVD drive
- Mac OS X or Mac OS X Server 10.2.8 (with Java 1.4.1 Update 1) or 10.3
- Apache HTTP Server (the version shipped with your operating system), enabled
- network connectivity to the Internet or an intranet via TCP/IP

Minimum requirements for more than 50 clients

Also consider using this set of requirements if you plan to install the Web Publishing Engine and FileMaker Server on the same computer.

- Power Mac G4 1 GHz
- 512 MB of installed RAM (1 GB or more recommended)
- hard disk with at least 1 GB of available disk space
- CD or DVD drive
- Mac OS X Server 10.2.8 (with Java 1.4.1 Update 1) or 10.3
- Apache HTTP Server (the version shipped with your operating system), enabled
- network connectivity to the Internet or an intranet via TCP/IP

Windows requirements for FileMaker Site Assistant and FileMaker CDML Converter tools

- Intel-compatible PC with a Pentium III 500 MHz processor
- 128 MB of installed RAM
- hard disk with at least 100 MB of available disk space
- CD or DVD drive
- Windows 2000 Server (with Service Pack 4), Windows 2000 Professional, Windows XP, Windows Server 2003 Standard Edition
- Java 2 Platform, Standard Edition (J2SE) 1.4.2 Windows (automatically installed with the tools)
- for Site Assistant only, network connectivity to the Web Publishing Engine via TCP/IP or installation on the same host as Web Publishing Engine

Mac OS requirements for FileMaker Site Assistant and FileMaker CDML Converter tools

- Apple G3 or G4 computer, 500 MHz
- 256 MB of installed RAM
- hard disk with at least 100 MB of available disk space
- CD or DVD drive
- Mac OS X or Mac OS X Server 10.2.8 (with Java 1.4.1 Update 1) or 10.3
- for Site Assistant only, network connectivity to the Web Publishing Engine via TCP/IP or installation on the same host as Web Publishing Engine

Important note about supported operating systems

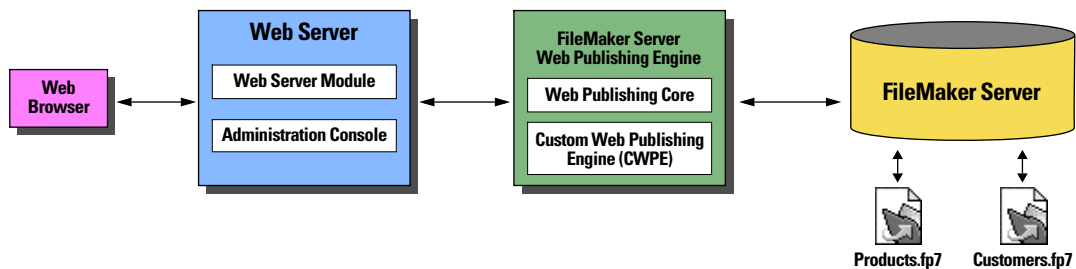
At the time this guide was written, FileMaker, Inc. tested the Web Publishing Engine with the Windows and Mac OS operating systems listed above. The Web Publishing Engine may or may not work with newer operating system releases. For information on newer operating systems, see www.filemaker.com.

About the Web Publishing Engine software components

The Web Publishing Engine uses the following software components:

- **Web server:** The Web Publishing Engine requires an Apache (Mac OS X) or IIS (Windows) web server. The web server must be installed before you install the Web Server Module and Administration Console.
- **Web Server Module and Administration Console:** These two software components are always installed together as a unit on the web server host computer. The Web Server Module enables the Web Publishing Engine to connect to the web server. You use the Administration Console in a web browser to configure the Web Publishing Engine via the connection through the web server.

- **Web Publishing Engine:** The Web Publishing Engine supports Instant Web Publishing and Custom Web Publishing with XML and XSLT using databases hosted by FileMaker Server. The Web Publishing Engine consists of two software components that are always installed together as a unit:
 - **Web Publishing Core:** This software component communicates with the web server and FileMaker Server and can generate Instant Web Publishing pages of hosted databases. It can also generate XML data from databases based on query commands and parameters.
 - **Custom Web Publishing Engine:** This software component communicates with the web server and Web Publishing Core. It processes XSLT stylesheets and provides output as HTML, XML, or text to the web server, which then provides the output to a web user's browser.
- **FileMaker Server:** FileMaker Server is required for hosting the databases you want to publish on the web.



Overview of Web Publishing Engine software components

About the tools for developing XSLT stylesheets

FileMaker Server Advanced includes two independent application tools you can use to develop XSLT stylesheets:

- FileMaker Site Assistant creates basic XSLT stylesheets as a starting point for use with Custom Web Publishing with XSLT.
- FileMaker CDML Converter converts existing CDML format files to XSLT stylesheets that are compatible with the Web Publishing Engine.

Overview of installing, configuring, and using the Web Publishing Engine

Here is a summary of the steps for installing, configuring, and using the Web Publishing Engine:

1. Do one of the following:

- If you haven't already done so, install FileMaker Server. See the *FileMaker Server Administrator's Guide*.
- If you have already installed FileMaker Server, update the license key with a FileMaker Server Advanced license key. See FileMaker Server Admin Help.

2. If you haven't already done so, install a web server.

For more information, see the instructions for your web server.

3. Install the Web Publishing Engine.

For background installation information, see the next section, "Installing the Web Publishing Engine in various host configurations." For details on installing the Web Publishing Engine in Windows, see chapter 2, "Installing the Web Publishing Engine in Windows." For details on installing the Web Publishing Engine in Mac OS X, see chapter 3, "Installing the Web Publishing Engine in Mac OS X."

4. Install the tools for developing XSLT stylesheets.

For information on installing the tools in Windows, see "Installing the FileMaker Site Assistant and FileMaker CDML Converter" on page 26. For information on installing the tools in Mac OS X, see "Installing the FileMaker Site Assistant and FileMaker CDML Converter" on page 29.

5. In FileMaker Server Admin, register the Web Publishing Engine in FileMaker Server.

To register the Web Publishing Engine, you specify the Web Publishing Engine identifier and optional passcode for securing the connection between FileMaker Server and the Web Publishing Engine. See "Registering the Web Publishing Engine in FileMaker Server" on page 16.

6. In the Web Publishing Engine Administration Console, configure the Web Publishing Engine. See chapter 4, "Configuring the Web Publishing Engine."

7. In FileMaker Pro, enable Custom Web Publishing and Instant Web Publishing in each database you want to publish.

For information on enabling Custom Web Publishing in a database, see the *FileMaker Server Advanced Custom Web Publishing Guide*. For information on enabling Instant Web Publishing in a database, see the *FileMaker Instant Web Publishing Guide*.

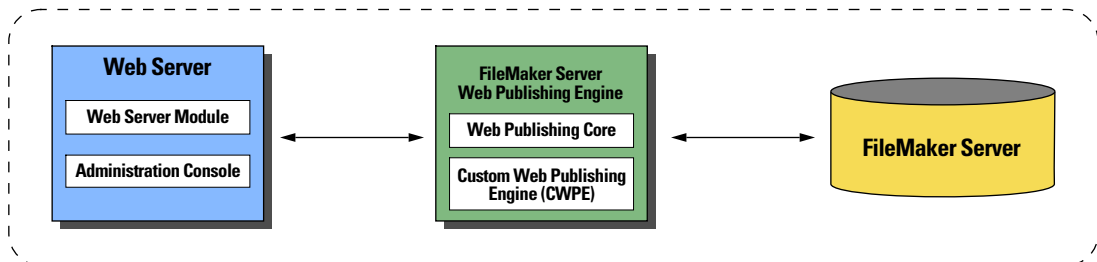
8. Set up a web publishing solution for the database by doing any of the following:
- Enable Instant Web Publishing for the database. See the *FileMaker Instant Web Publishing Guide*.
 - Create a custom web site or application to query the database for XML data via a query string in a URL. See the *FileMaker Server Advanced Custom Web Publishing Guide*.
 - Create a custom web site or application to query the database via XSLT stylesheets. You can create XSLT stylesheets by using the CDML Converter to convert existing CDML format files and then enhancing the converted stylesheets, or by creating new XSLT stylesheets. See the *FileMaker Server Advanced Custom Web Publishing Guide*.

Installing the Web Publishing Engine in various host configurations

You can install the Web Publishing Engine and its associated software components in the following configurations of one, two, or three host computers. The operating systems of the various computers can be all Windows, all Mac OS X, or any combination of the two. Make sure the ports indicated in the following diagrams are available on each computer (not used by another process), and are not blocked by a firewall.

- **One computer configuration:** You can install FileMaker Server, the Web Publishing Engine, and all of the associated software components on the same computer. This is the simplest configuration.

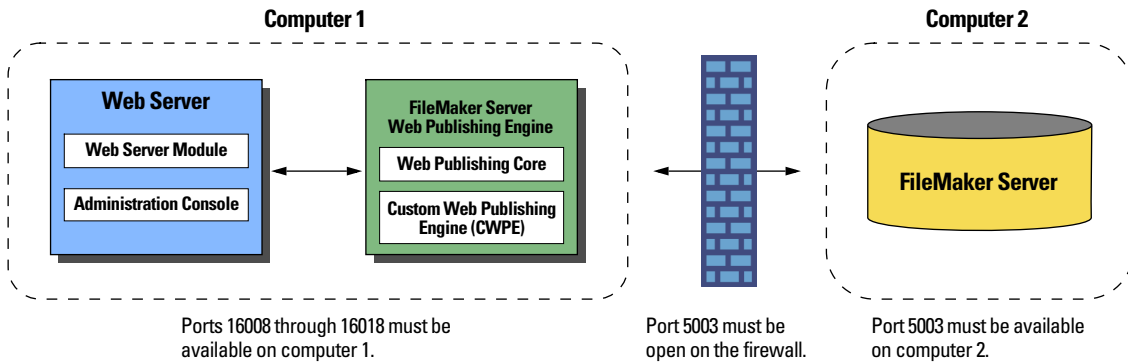
One computer configuration



Ports 5003 and 16008 through 16018 must be available on this computer. Port 5003 must also be open if there is an internal software firewall on the computer.

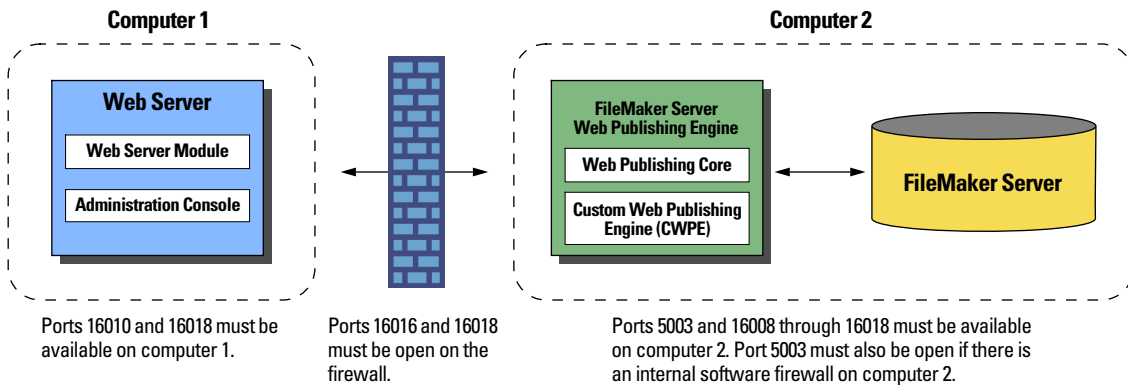
- Two computers configuration, variation A:** You can install the Web Publishing Engine, web server, Web Server Module, and Administration Console on one computer, and FileMaker Server on a second computer. This configuration separates all of the web-publishing related components from FileMaker Server.

Two computers configuration, variation A

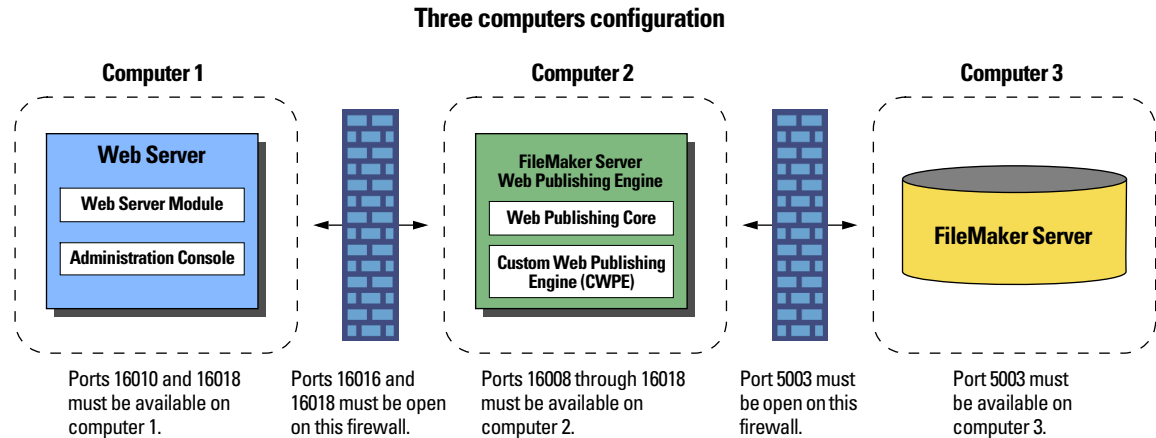


- Two computers configuration, variation B:** You can install the web server, Web Server Module, and Administration Console on one computer, and the Web Publishing Engine and FileMaker Server on a second computer. In this configuration, you can optionally locate the web server host computer on the outside of a firewall, and the Web Publishing Engine and FileMaker Server host computer can be located inside the firewall.

Two computers configuration, variation B



- Three computers configuration:** You can install the web server, Web Server Module, and Administration Console on one computer, the Web Publishing Engine on a second computer, and FileMaker Server on a third computer. The web server, Web Server Module, and Administration Console are on a computer that serves as the request gateway, and you can optionally use a firewall to separate them from the components on the other two computers.



Important To secure your solution, especially on the Internet, consider using a firewall on the public side of the preceding configurations. For more information on setting up security for web published solutions, see the *FileMaker Security Guide*.

About the protocols for the Web Publishing Engine

To communicate with FileMaker Server and your web server, the Web Publishing Engine uses the following protocols on the ports indicated. If you're using a firewall, be sure to configure it to allow these particular protocols.

The FileMaker Proprietary Networking protocol on port 5003 is used between FileMaker Server and the Web Publishing Engine. The AJP protocol is used between the web server and the Web Publishing Engine.

Protocol	TCP ports
FileMaker Proprietary Networking	5003
Apache Jakarta Protocol (AJP) 1.3	16016, 16018
Tomcat Control	16010
FileMaker Internal	16008, 16012
HTTP	16014

For information on other ports used by FileMaker Server, see the *FileMaker Server Administrator's Guide*.

Using SSL and FileMaker Server encryption

Depending on your particular host computer configuration, you can use SSL and FileMaker Server encryption for security. You can use SSL between the web server host computer and web user's browsers. You can also use FileMaker Server encryption between the FileMaker Server host computer and the Web Publishing Engine host computer. For information on enabling FileMaker Server encryption, see FileMaker Server Admin Help.

Registering the Web Publishing Engine in FileMaker Server

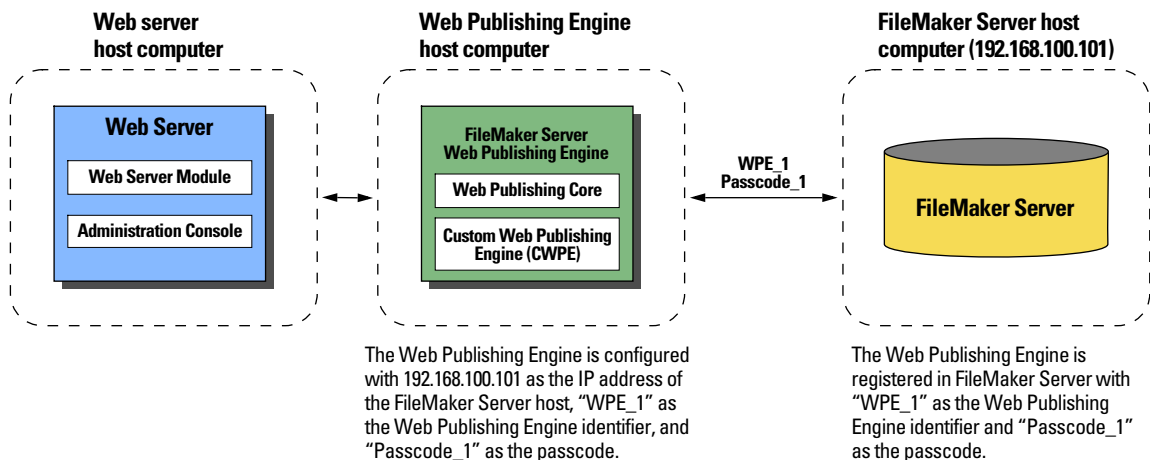
To enable web publishing in FileMaker Server, you must register the Web Publishing Engine in FileMaker Server by using FileMaker Server Admin to specify an:

- Identifier string that identifies the Web Publishing Engine to FileMaker Server.
- Optional passcode to make sure that your FileMaker Server only connects to your particular Web Publishing Engine. Passcodes prevent unauthorized users from using other Web Publishing Engines to access the databases hosted by your FileMaker Server.

For information on how to register the Web Publishing Engine in FileMaker Server, see FileMaker Server Admin Help.

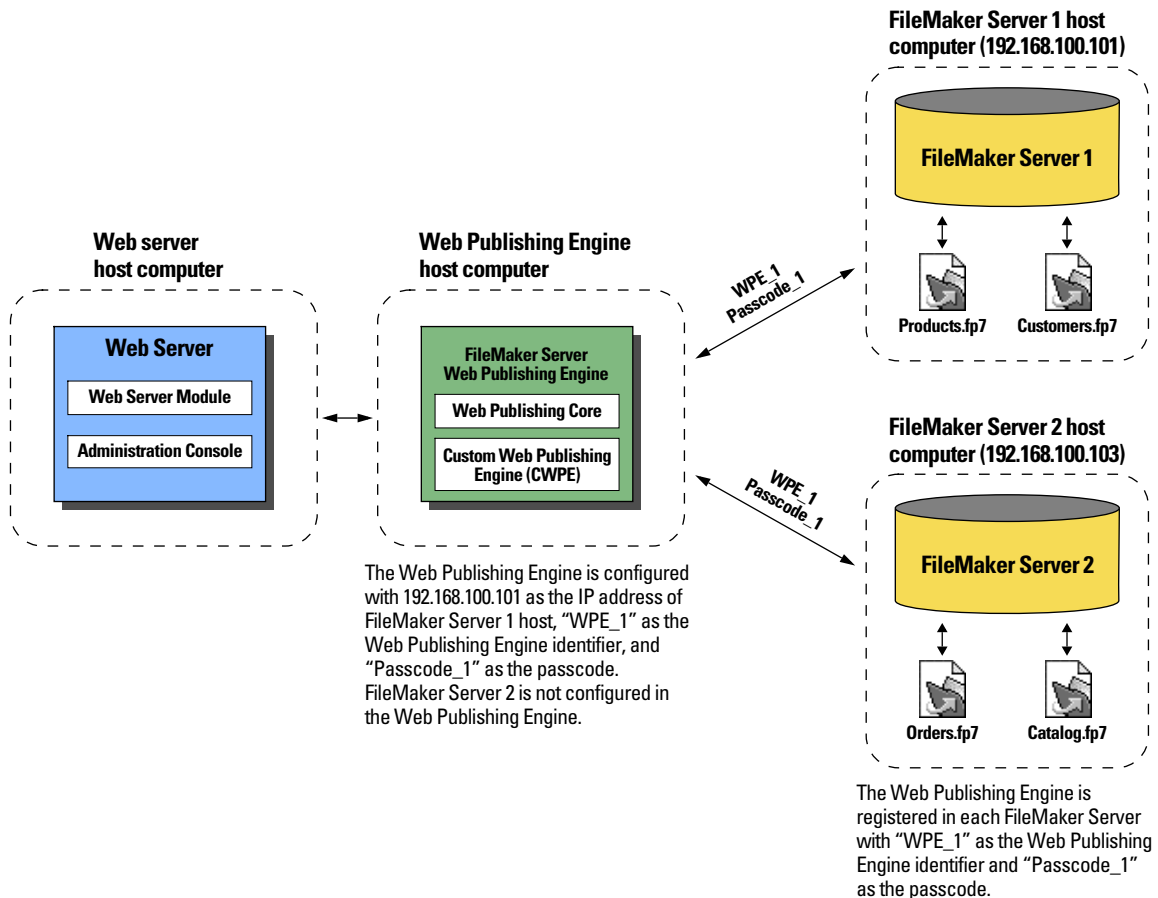
After registering the Web Publishing Engine in FileMaker Server, you must configure the Web Publishing Engine with the same identifier and passcode. See “Configuring the connection between the Web Publishing Engine and FileMaker Server” on page 36. To authenticate a connection for web publishing, FileMaker Server compares the identifier and passcode specified in the Web Publishing Engine with the identifier and passcode specified in FileMaker Server. If the identifiers or passcodes don't match, FileMaker Server denies the connection.

Here is an example of the information you would need to specify in a three-computer configuration:



If your solution uses relationships between databases that are hosted on multiple FileMaker Servers, then you must register the Web Publishing Engine in each FileMaker Server.

For example, here is a solution in which a Products database hosted by FileMaker Server 1 uses data from a Catalog database hosted by FileMaker Server 2. To enable the Web Publishing Engine to connect to both FileMaker Servers, you must register the Web Publishing Engine in each FileMaker Server that specifies the same identifier and optional passcode that is configured in the Web Publishing Engine, such as WPE_1 and Passcode_1. Although you can only specify the IP address of one FileMaker Server when you configure the Web Publishing Engine, the connection to the other FileMaker Server occurs automatically.



Installing plug-ins for the Web Publishing Engine

If you want to use calculation plug-ins with the Web Publishing Engine, you must install the plug-ins in the following folder on the host where the Web Publishing Engine is installed. These folder locations are relative to the installation folder where the Web Publishing Engine is installed (not the root folder):

In Windows:

Web Publishing\publishing-engine\wpc\Plugins

In the Mac OS:

Library/FileMaker Server 7/Web Publishing/publishing-engine/wpc/Plugins

Note You must install the plug-ins for the Web Publishing Engine in addition to any plug-ins you may have installed for FileMaker Server or FileMaker Pro, even if they are the same plug-ins. For additional information about using plug-ins, see the *FileMaker Server Administrator's Guide*.

Chapter 2

Installing the Web Publishing Engine in Windows

For late-breaking information about the Web Publishing Engine, browse the contents of the CD and view the FMS Web Read Me (English).pdf file in the FileMaker Server 7 folder, or visit www.filemaker.com.

Overview of installation

During installation, you can choose to install the following Web Publishing Engine software components:

- Web Publishing Engine component
- Web Server Module and Administration Console components (always installed together as a unit on the web server)

You can install the Web Publishing Engine software components on one, two, or three host computer configurations. See “Installing the Web Publishing Engine in various host configurations” on page 13.

To create the one computer configuration or the two computers configuration, variation A, you can use the Complete Install option to install the Web Publishing Engine component and the Web Server Module and Administration Console components on the same host computer.

In the two computers configuration, variation B, or in the three computers configuration, the Web Publishing Engine component is on a different host computer than the Web Server Module and Administration Console components, which are on the web server host. To create either of these two configurations, you must run the installer on the appropriate host and use the Custom Install option to install the Web Publishing Engine component only. Then run the installer again on the web server host and use the Custom Install option to install the Web Server Module and Administration Console components only.

To install the FileMaker Site Assistant and FileMaker CDML Converter tools, you must use an independent tools installer. See “Installing the FileMaker Site Assistant and FileMaker CDML Converter” on page 26.

Installing the Web Publishing Engine software components

Before you begin the installation process, review the following notes:

- Exit other open programs and save your work.
- Log on to the host computer using Administrator privileges.
- If your computer is running virus protection software, turn it off prior to installation and then turn it back on afterwards.

To install the Web Publishing Engine software components:

1. Insert the FileMaker Server 7 Advanced CD into the CD or DVD drive on the host computer where you want to install the Web Publishing Engine software components.

The FileMaker Server Advanced CD window appears.

2. Click the Install icon.



Install icon —————

3. Choose a language and click OK.

The default language selection matches your operating system language. A Complete Install will install the Web Publishing Engine documentation (this *FileMaker Server Advanced Web Publishing Installation Guide* and the *FileMaker Server Advanced Custom Web Publishing Guide*) in the language version you choose. You can install additional language versions of the documentation by choosing Custom Install, and then selecting other language packs from the list of supported languages.

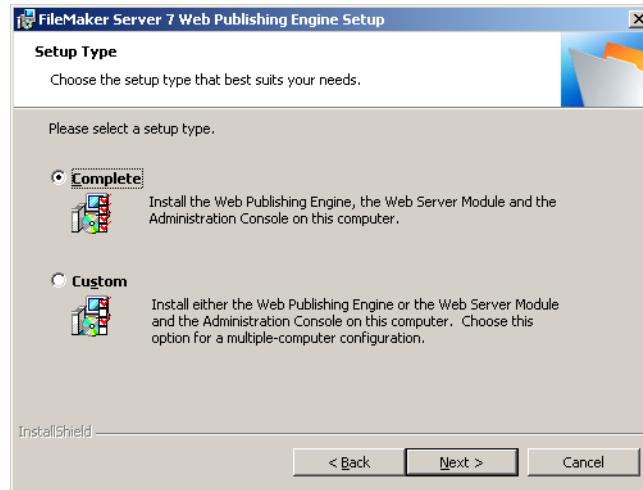
4. When the InstallShield Wizard for the FileMaker Server Web Publishing Engine appears, click Next.
5. Read and accept the terms of the license agreement and click Next.
6. Enter your customer information and click Next.

7. Specify the folder where you want to install the software components and click **Next**.

By default, the Web Publishing Engine is installed in this folder:

\Program Files\FileMaker\FileMaker Server 7\Web Publishing

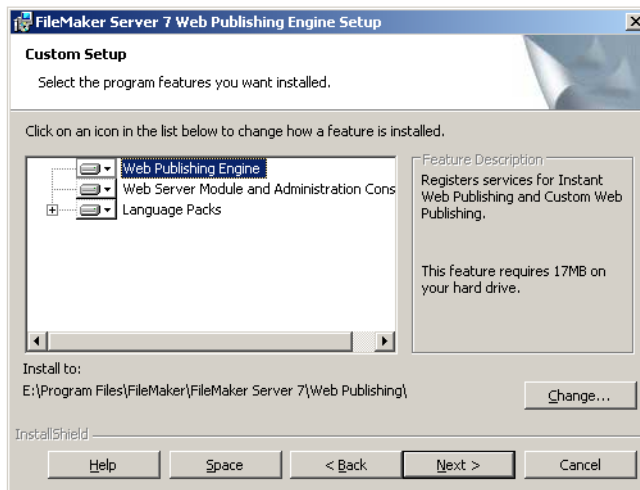
The Setup Type screen appears.



8. Do one of the following:

- To install all of the software components on the current host computer (the Web Publishing Engine, the Web Server Module, and the Administration Console), select **Complete** and click **Next**. Proceed to step 11.
- To install only some of the software components on the current host computer (either the Web Publishing Engine, or the Web Server Module and Administration Console), select **Custom** and click **Next**.

If you selected **Custom**, the Custom Setup screen appears.



9. Select the items you want to install:

- To install the Web Publishing Engine only, select **Web Publishing Engine** and deselect **Web Server Module and Administration Console**. Click **Next** and proceed to step 11.
- To install the Web Server Module and Administration Console only, select **Web Server Module and Administration Console** and deselect **Web Publishing Engine**. The Web Server Module and Administration Console are installed together as a unit. Click **Next** and proceed to step 10.
- To install additional language versions of the Web Publishing Engine documentation, select the appropriate language pack. Click **Next** and proceed to step 11.

10. If you are installing the Web Server Module and Administration Console on a different host computer than the Web Publishing Engine, enter the IP address of the host computer where the Web Publishing Engine is installed and click **Next**.

Otherwise, the installer does not request the IP address and you can skip this step.

11. Specify whether you want the Web Publishing Engine services (Web Publishing Core service and Custom Web Publishing Engine service), and/or the Administration Console service to start automatically or manually and click **Next**.

See the next section, “About the Web Publishing Engine services.”

12. Click Install.
13. When the installation is complete, click Finish.
14. If you installed the Web Server Module and Administration Console, restart the IIS web server.

Note The Web Publishing Engine documentation is installed in the Electronic Documentation folder (inside the English Extras folder).

About the Web Publishing Engine services

If you install this software component	These services are also installed
Web Publishing Engine	FileMaker Publishing Engine (WPC) FileMaker Publishing Engine (CWPE)
Administration Console	FileMaker Publishing Engine (CONFIG)
Web Publishing Engine and Administration Console installed on same host	FileMaker Publishing Engine (WPC) FileMaker Publishing Engine (CWPE & CONFIG)

For information on restarting the services, see “Using the Web Publishing Engine and Administration Console services” on page 51.

Installing the Web Publishing Engine from the command line

To install the Web Publishing Engine from the command line:

1. Insert the FileMaker Server 7 Advanced CD into the CD or DVD drive on the host computer where you want to install the Web Publishing Engine software components.

2. Open a command window and type:

```
msiexec /i <path>\FileMaker Server 7 Web Publishing Engine.msi /qn+ /Lr <log file>.txt
```

where:

- <path> is the drive for your CD or DVD drive and this folder path:
 FileMaker Web Publishing Engine

Note If you have copied the FileMaker Server 7 Web Publishing Engine.msi to your hard disk, replace the preceding path with the path to the file’s location on your hard disk.

- <log file>.txt specifies the path and name of the text log file, such as C:\logfile.txt. You can view the log file with WordPad or a word processing program.

For more information on using msiexec, see Windows help.

3. Follow the on-screen instructions.

Setting up authentication for a Windows IIS web site

FileMaker Server handles the authentication for password-protected databases. You can choose whether you want to also use IIS web site authentication in addition to FileMaker Server authentication.

You must decide whether you want to use IIS web site authentication and take the appropriate steps before using the Administration Console for the first time to configure the Web Publishing Engine.

You can choose from the following scenarios:

- Disable IIS authentication. You can disable all IIS authentication methods and use anonymous access to the IIS site. This is the simplest configuration. See the next section, “Disabling IIS authentication.”
- Leave IIS authentication enabled and also enable Basic Authentication. You can leave the current IIS authentication methods enabled for use with other web sites, and use Basic Authentication for the Web Publishing Engine. You must also set up Windows user accounts that exactly match the user accounts for the Web Publishing Engine and web-published FileMaker databases. See “Enabling IIS authentication” on page 25.

For information on IIS, see the IIS online documentation by entering <http://localhost/iisHelp> in your web browser.

Disabling IIS authentication

If you disable all IIS authentication methods and use anonymous access to the IIS site, then you don’t need to add any Windows user accounts.

To disable IIS authentication:

1. In Internet Information Services, select the web site and choose **Action** menu > **Properties**.
2. In the Directory Security properties sheet, click **Edit** for authentication methods.
3. In the Authentications Methods dialog box, do the following:
 - Select **Anonymous access**.
 - Disable all of the authentication methods under **Authenticated access**.
4. Click **OK** to close the Authentications Methods dialog box.
5. Click **OK** to close the Directory Security properties sheet.

Enabling IIS authentication

If you enable any of the IIS authentication methods for the IIS web server, you must enable Basic Authentication for web sites that connect to the Web Publishing Engine. Note that the Web Publishing Engine only uses Basic Authentication and none of the other IIS authentication methods. Other web sites on the web server can use the other IIS authentication methods.

In this scenario, you must also create Windows user accounts on the web server host computer that contain user names and passwords that exactly match the user names and passwords for the following accounts:

- Web Publishing Engine user name and password, which you create by using the Administration Console. See “Configuring the Web Publishing Engine for the first time” on page 32.
- all password-protected accounts defined in all web-published FileMaker databases.

To enable IIS authentication:

1. In Internet Information Services, select the web site and choose Action menu > Properties.
2. In the Directory Security properties sheet, click Edit for authentication methods.
3. In the Authentications Methods dialog box, do the following:
 - Enable Anonymous access.
 - Enable Basic Authentication along with any of the other authentication methods under Authenticated access.
4. Click OK to close the Authentications Methods dialog box.
5. Click OK to close the Directory Security properties sheet.

Uninstalling, modifying, or repairing the Web Publishing Engine

You can use the Windows Add or Remove Programs control panel to uninstall the Web Publishing Engine components, replace missing or corrupt files, or to change which features are installed. Before uninstalling, be sure to stop the Web Publishing Engine services. See “Starting, restarting, or stopping the services in Windows” on page 52.

Note If you’re running Windows 2000 Server and you uninstall a feature that contains a Web Publishing Engine service, the installer will prompt you to restart your computer.

Installing the FileMaker Site Assistant and FileMaker CDML Converter

You can install the FileMaker Site Assistant on any computer that has network access to the Web Publishing Engine, or you can install it on the same computer as the Web Publishing Engine. The Site Assistant needs access to the Web Publishing Engine to operate.

You can install the FileMaker CDML Converter, which does not need access to the Web Publishing Engine, on any computer.

To install the FileMaker Site Assistant and FileMaker CDML Converter tools:

1. Insert the FileMaker Server 7 Advanced CD into the CD or DVD drive on the host computer where you want to install the tools.

The FileMaker Server Advanced CD window appears.

2. Click the Browse icon.
3. Locate and double-click the Setup.exe file in the FileMaker Web Publishing Tools folder.
4. Follow the on-screen instructions to install either or both tools.

To install the FileMaker Site Assistant and FileMaker CDML Converter tools from the command line:

1. Insert the FileMaker Server 7 Advanced CD into the CD or DVD drive on the host computer where you want to install the tools.
2. Open a command window and type:

```
msiexec /i <path>\FileMaker Server 7 Web Publishing Tools.msi /qn+ /Lr <log file>.txt
```

where:

- <path> is the drive for your CD or DVD drive and this folder path:
 FileMaker Web Publishing Tools

Note If you have copied the FileMaker Server 7 Web Publishing Engine.msi to your hard disk, replace the preceding path with the path to the file's location on your hard disk.

- <log file>.txt specifies the path and name of the text log file, such as C:\logfile.txt. You can view the log file with WordPad or a word processing program.

For more information on using msiexec, see Windows help.

3. Follow the on-screen instructions.

Where to go from here

After you install the Web Publishing Engine, you must use the Administration Console to configure the Web Publishing Engine. For more information, see chapter 4, "Configuring the Web Publishing Engine."

Chapter 3

Installing the Web Publishing Engine in Mac OS X

For late-breaking information about the Web Publishing Engine, browse the contents of the CD and view the FMS Web Read Me (English).pdf file in the FileMaker Server 7 folder, or visit www.filemaker.com.

Overview of installation

During installation, you can choose to install the following Web Publishing Engine software components:

- Web Publishing Engine component
- Web Server Module and Administration Console components (always installed together as a unit on the web server)

You can install the Web Publishing Engine software components on one, two, or three host computer configurations. See “Installing the Web Publishing Engine in various host configurations” on page 13.

To create the one computer configuration or the two computers configuration, variation A, you can use the Easy Install option to install the Web Publishing Engine component and the Web Server Module and Administration Console components on the same host computer.

In the two computers configuration, variation B, or in the three computers configuration, the Web Publishing Engine component is on a different host computer than the Web Server Module and Administration Console components, which are on the web server host. To create either of these two configurations, you must run the installer on the appropriate host and use the Custom Install option to install the Web Publishing Engine component only. Then run the installer again on the web server host and use the Custom Install option to install the Web Server Module and Administration Console components only.

To install the FileMaker Site Assistant and FileMaker CDML Converter tools, you must use an independent tools installer. See “Installing the FileMaker Site Assistant and FileMaker CDML Converter” on page 29.

Installing the Web Publishing Engine software components

Before you begin the installation process, review the following notes:

- If you are using Mac OS X Server 10.2.8, make sure Java 2 Platform, Standard Edition (J2SE) 1.4.1 Update 1 is installed on the host computer. If it isn't, use Software Update to install J2SE 1.4.1 before beginning the installation process.
- Log on to the host computer using Administrator privileges.
- If your computer is running virus protection software, turn it off prior to installation and then turn it back on afterwards.

To install the Web Publishing Engine software components:

1. Insert the FileMaker Server 7 Advanced CD into the CD or DVD drive on the host computer where you want to install the Web Publishing Engine software components.

The disc's window appears on your screen. If you see only the disc icon, double-click the CD icon to open its window.

2. Double-click the FileMaker Web Publishing Engine installer.
3. If the installer requests authentication, enter a user name and password for an administrator account.
4. Read and accept the terms of the license agreement and click **Accept**.
The Easy Install dialog box appears.
5. Do one of the following:
 - To install all of the software components on the current host computer (the Web Publishing Engine, the Web Server Module, and the Administration Console), choose **Easy Install** and proceed to step 8.
 - To install only some of the software components on the current host computer (either the Web Publishing Engine, or the Web Server Module and Administration Console), choose **Custom Install** and proceed to step 6.
6. If you chose **Custom**, select the software components you want to install on the current host computer:
 - To install the Web Publishing Engine only, select **Web Publishing Engine**.
 - To install the Web Server Module and Administration Console only, select **Web Server Module and Administration Console**. The Web Server Module and Administration Console are installed together as a unit.
 - To install additional language versions of the Web Publishing Engine documentation, select the appropriate language pack.
7. If you are installing the Web Server Module and Administration Console on a different host computer than the Web Publishing Engine, enter the IP address of the host computer where the Web Publishing Engine is installed. Otherwise, the installer does not request the IP address and you can skip this step.

8. Click **Install**.
9. When installation completes, do one of the following:
 - Click **Restart** to leave the Installer and restart your computer.
 - If you want to install other software components before using the computer, you can either click **Continue** to install the other components, or you can click **Quit** to quit the installer.

Note You must restart your computer before you can start using the Web Publishing Engine or Administration Console.

Note The installer creates a group named `fmsadmin` and an account named `fmweb` to run the Web Publishing Engine in.

Where files are stored on your hard disk

The Web Publishing Engine installer copies files to several folders on your hard disk, depending on the installation options you choose. When installation is complete, you can view the Web Publishing Engine Installer Log File, which lists the location of each installed file, in the FileMaker Server 7 folder inside the Library folder. You can view the log file with TextEdit or a word processing program. If the log file already exists from a previous installation, the new information is appended at the end of the file.

Uninstalling, modifying, or repairing the Web Publishing Engine

You can use the FileMaker Web Publishing Engine installer to uninstall the Web Publishing Engine software components. Before uninstalling, be sure to stop the Web Publishing Engine services. See “Starting, restarting, stopping, or disabling the services in Mac OS X” on page 52.

Installing the FileMaker Site Assistant and FileMaker CDML Converter

You can install the FileMaker Site Assistant on any computer that has network access to the Web Publishing Engine, or it can be installed on the same computer as the Web Publishing Engine. The Site Assistant needs access to the Web Publishing Engine to operate.

You can install the FileMaker CDML Converter, which does not need access to the Web Publishing Engine, on any computer.

To install the FileMaker Site Assistant and FileMaker CDML Converter tools:

1. Insert the FileMaker Server 7 Advanced CD into the CD or DVD drive on the computer where you want to install the tools.

The disc's window appears on your screen. If you see only the disc icon, double-click the CD icon to open its window.

2. Double-click the FileMaker Web Publishing Tools installer.
3. Follow the on-screen instructions to install either or both tools.

When installation is complete, you can view the Installer Log File in the FileMaker Server 7 folder, which is inside the Library folder.

Where to go from here

After you install the Web Publishing Engine, you must use the Administration Console to configure the Web Publishing Engine. For more information, see chapter 4, “Configuring the Web Publishing Engine.”

Chapter 4

Configuring the Web Publishing Engine

After installing the Web Publishing Engine software components, use the Administration Console to configure the Web Publishing Engine.

About the Web Publishing Engine Administration Console

The Administration Console software is installed with the Web Server Module software on the web server host computer. You use the Administration Console in a web browser to configure the Web Publishing Engine via the connection through the web server. You can use the Administration Console on any computer that has access to the web server.

General steps for configuring the Web Publishing Engine

Here is a summary of the steps for using the Administration Console to configure the Web Publishing Engine.

1. Specify the following required configuration settings:

- user name and password for the Administration Console
- IP address of the host computer where the Web Publishing Engine is installed
- user name and password for the Web Publishing Engine
- IP address of the host computer where FileMaker Server is installed
- Web Publishing Engine identifier and optional passcode that match the identifier and passcode you registered in FileMaker Server for the Web Publishing Engine

For more information, see the next section, “Configuring the Web Publishing Engine for the first time.”

2. As necessary, disable the individual web publishing technologies that you want to block on the Web Publishing Engine. By default, all of the following web publishing technologies are enabled:

- Instant Web Publishing: See “Disabling Instant Web Publishing” on page 40.
- Custom Web Publishing with XML: See “Disabling Custom Web Publishing with XML” on page 41.
- Custom Web Publishing with XSLT: See “Disabling Custom Web Publishing with XSLT” on page 45.

3. As necessary, set the following options for Custom Web Publishing with XSLT:
 - Web Publishing Engine mode of operation: See “Setting the Web Publishing Engine mode” on page 41.
 - server-side stylesheet caching: See “Setting server-side XSLT stylesheet caching” on page 43.
 - database sessions: See “Configuring the interaction between web sessions and database sessions” on page 43.
 - SMTP email server settings: See “Configuring access to a mail server for the Web Publishing Engine” on page 44.
 - default text encoding settings: See “Setting the default text encoding for XSLT requests” on page 45.
4. As necessary, set the following general settings for the Web Publishing Engine:
 - log file settings: See “Specifying logging options for the Web Publishing Engine” on page 46.
 - session time-out settings: See “Setting the session time-out for the Web Publishing Engine” on page 47.
5. As necessary, restrict access to the Administration Console from particular IP addresses. See “Restricting access to the Administration Console” on page 49.

Configuring the Web Publishing Engine for the first time

The first time you use the Administration Console to configure the Web Publishing Engine, you must specify two sets of user names and passwords:

- a user name and password for the Administration Console, which are used to authenticate web users who attempt to use the Administration Console. This user name and password prevent unauthorized users from using the Administration Console to take over control of your Web Publishing Engine.
- a user name and password for the Web Publishing Engine, which are used to authenticate the Administration Console software component when it accesses the Web Publishing Engine. This user name and password prevent unauthorized users from installing another copy of the Administration Console and taking over control of your Web Publishing Engine.

Note The system language of the host computer where you run the Administration Console for the first time sets the default status area language for Instant Web Publishing and the default text encoding for Custom Web Publishing with XSLT on the Web Publishing Engine. You can change these default settings for the Web Publishing Engine by using the Administration Console.

To configure the Web Publishing Engine for the first time:

1. Start the Administration Console by entering the following URL in a web browser on any computer that has access to the web server:

<scheme>://<host>[:<port>]/fmi/config

where:

- <scheme> can be the HTTP or HTTPS protocol.
- <host> is the IP address or domain name of the host where the web server is installed.
- <port> is optional and specifies the port that the web server is using. If no port is specified, then the default port for the protocol is used (port 80 for HTTP, or port 443 for HTTPS).

For example:

http://192.168.100.110/fmi/config

http://localhost/fmi/config

http://webserver123.company.com/fmi/config

The initial setup page of the Administration Console appears. This page only appears the first time you use the Administration Console.

FileMaker Server Web Publishing Administration Console			
Overview	Publishing Engine	FileMaker Server	Administration
General Settings Change Administration User Change Administration Password About Administration Console			
Administration Console Configuration: Configure Administration Account			
User Name:	<input type="text"/>		
Password:	<input type="password"/>		
Confirm Password:	<input type="password"/>		
<input type="button" value="Clear"/> <input type="button" value="Apply"/>			
Tip: Specify a user name and password for a new Admin account on the Web Publishing Administration Console server.			
Console and Web Servers Require Restart <input type="button" value="Commit"/> <input type="button" value="Revert"/> <input type="button" value="Restart Publishing Engine"/> <input type="button" value="Logout"/>			

2. Enter a user name and password for authenticating a web user who attempts to use the Administration Console.

Whenever you use the Administration Console, you must enter this user name and password.

3. Click Apply.

The Publishing Engine Configuration: Set Publishing Engine Address page appears.

4. Enter the IP address of the host computer where the Web Publishing Engine is installed.

If the Web Publishing Engine is installed on the same host as the web server and Administration Console, you can enter `localhost` as the address.

5. Click Continue.

The Publishing Engine Configuration: Set Publishing Engine Authentication page appears.

The screenshot displays the 'FileMaker Server Web Publishing Administration Console' interface. At the top, there are navigation tabs: 'Overview', 'Publishing Engine', 'FileMaker Server', and 'Administration'. Below these, there are sub-tabs: 'General Settings', 'InstantWeb Publishing', 'XML Publishing', and 'XSLT Publishing'. The main content area is titled 'Publishing Engine Configuration: Set Publishing Engine Authentication'. It contains three input fields: 'User Name:', 'Password:', and 'Confirm Password:'. Below the input fields are two buttons: 'Cancel' and 'Apply'. At the bottom of the main content area, there is a tip: 'Tip: Specify a user name and password for the Publishing Engine. Note that the Publishing Engine user name and password are not the user name and password used for this Web Publishing Administration Console.' The bottom of the console features a status bar with the text 'Console and Web Servers Require Restart' and four buttons: 'Commit', 'Revert', 'Restart Publishing Engine', and 'Logout'.

Note This page only appears the first time you use a newly installed Administration Console or you are configuring a newly installed Web Publishing Engine. If you are using a newly installed Administration Console to configure an already installed Web Publishing Engine, this page is not displayed. Instead, you will see a page where you can enter a user name and password for the existing Web Publishing Engine.

6. Enter a user name and password for authenticating the Administration Console when it accesses the Web Publishing Engine.

After this initial configuration of the Web Publishing Engine user name and password, you don't have to enter this user name and password again when using the existing Administration Console. But, if you uninstall the Administration Console and then reinstall it, you must enter this Web Publishing Engine user name and password again during the initial configuration of the Administration Console.

7. Click Apply.

The **Overview** page of the Administration Console appears, which shows where the Web Publishing Engine components are installed and their current status. The following example shows a one computer configuration. If you are using a two or three computer configuration, the **Overview** page shows two or three boxes to represent the number of computers and their IP addresses.

Click these links to display other pages in the Administration Console

This box indicates all components are installed on one host that has the IP address shown here.

The passcode authentication failed because you haven't set it up yet. See the next section.

FileMaker Server Web Publishing Administration Console

Publishing Engine address is configured correctly.

Overview Publishing Engine FileMaker Server Administration

FileMaker Web Publishing Overview:

192.168.123.101

Web Server
[Administration Console Server](#)

Publishing Engine

Instant Web Publishing	On
XML Publishing	On
XSLT Publishing	On

Passcode authentication with FileMaker server failed. Verify that the [specified passcode](#) is correct.

[About Administration Console](#)

Tip: This overview shows where the FileMaker Web Publishing components are installed and their current status. Throughout the console, click Commit to apply configuration changes, and click Restart Publishing Engine before logging out of the console. Whenever the "Console and Web Servers Require Restart" indicator at the bottom of the console is shown in red, you must restart your web server and the Administration Console server on the host where they are installed.

Console and Web Servers Require Restart Commit Revert Restart Publishing Engine Logout

Configuring the connection between the Web Publishing Engine and FileMaker Server

After logging into the Administration Console for the first time, the next step is to specify the following information for the connection between the Web Publishing Engine and FileMaker Server:

- IP address of the FileMaker Server host
- Web Publishing Engine identifier and optional passcode that match the identifier and passcode you registered in FileMaker Server for the Web Publishing Engine

For information on the Web Publishing Engine identifier and passcode, see “Registering the Web Publishing Engine in FileMaker Server” on page 16.

To configure the connection between the Web Publishing Engine and FileMaker Server:

1. In the Overview page of the Administration Console, click the FileMaker Server link at the top of the page.
The FileMaker Server Configuration:Server Address page appears.

FileMaker Server Web Publishing Administration Console			
Overview	Publishing Engine	FileMaker Server	Administration
Server Address Published Databases			
FileMaker Server Configuration: Server Address			
Address:	<input type="text" value="127.0.0.1"/>		
Web Publishing Engine Identifier:	<input type="text"/>		
Web Publishing Server Passcode:	<input type="text"/>		
The specified FileMaker Server is not accepting the Publishing Engine connection. Check the server or specify an alternate server.			
Tip: Enter "localhost" if the FileMaker Server is installed on the same host as the Publishing Engine. Otherwise, enter the domain name or IP address of the host where the FileMaker Server is installed. Enter an identifier and optional passcode for this Publishing Engine to use with the specified FileMaker Server. Specify the same identifier and passcode when configuring the FileMaker Server to use this Publishing Engine.			
Console and Web Servers Require Restart		<input type="button" value="Commit"/>	<input type="button" value="Revert"/>
		<input type="button" value="Restart Publishing Engine"/>	<input type="button" value="Logout"/>

2. Enter the IP address of the host computer where FileMaker Server is installed.
If FileMaker Server is installed on the same host as the web server and Administration Console, you can enter `localhost` as the address.
3. Enter an identifier for the Web Publishing Engine.
The identifier is a unique string that the Web Publishing Engine uses to identify itself when it connects to FileMaker Server. You must register the identical identifier string in FileMaker Server for the Web Publishing Engine.
4. If you registered a passcode in FileMaker Server for the Web Publishing Engine, enter the same passcode in the FileMaker Server Configuration:Server Address page.
Note If you want to revert back to the previously saved settings, click **Revert**.
5. If you are finished making configuration changes in the Administration Console, click **Commit** to save the settings. You can also wait before clicking **Commit** if you want to make other changes before saving all settings.
Note After changing a setting, you must click **Commit** to save the setting. After you click **Commit**, you cannot use **Revert** to revert back to the settings that existed before you clicked **Commit**.
6. If you want the new committed settings to take effect immediately, click **Restart Publishing Engine**.
After committing a setting, you must click **Restart Publishing Engine** to have the Web Publishing Engine start using the new settings immediately. You can also wait until you are finished changing settings in all pages of the Administration Console, and then click **Restart Publishing Engine** to start using the new settings.
Important For more information on situations when you must restart the Web Publishing Engine, the Administration Console, and the web server after you change settings, see “Using the Web Publishing Engine and Administration Console services” on page 51.

Viewing an overview of the Web Publishing Engine configuration

To verify the Web Publishing Engine configuration, you can view an overview of the components by clicking the Overview link at the top of the Administration Console. If you specified the IP address, Web Publishing Engine identifier, and passcode correctly and the Web Publishing Engine connected successfully with FileMaker Server, the Overview page shows the addresses of all of the components.

Here is an example of an Overview page for a one computer configuration where all of the components are installed on one host with the address 192.168.123.101. Your Overview page will appear slightly different if you are using a two or three computer configuration.

FileMaker Server Web Publishing Administration Console

Overview Publishing Engine FileMaker Server Administration

FileMaker Web Publishing Overview:

192.168.123.101

Web Server
[Administration Console Server](#)

Publishing Engine
[Instant Web Publishing](#) On
[XML Publishing](#) On
[XSLT Publishing](#) On

Databases
[FileMaker Server](#)

Database Session Statistics:

	Current (refresh) (11/6/03 2:33 PM)	Limit
IWP Database Sessions:	5	
XSLT Database Sessions:	8	
Total Sessions:	13	50

[About Administration Console](#)

Tip: This overview shows where the FileMaker Web Publishing components are installed and their current status. Throughout the console, click Commit to apply configuration changes, and click Restart Publishing Engine before logging out of the console. Whenever the "Console and Web Servers Require Restart" indicator at the bottom of the console is shown in red, you must restart your web server and the Administration Console server on the host where they are installed.

Console and Web Servers Require Restart

This link indicates the Web Publishing Engine is connected to FileMaker Server.

Click this link to display the current number of sessions. The timestamp indicates when the session statistics were last updated.

You set the limit to the number of sessions in FileMaker Server Admin.

Configuring Instant Web Publishing

You can set the language of the status area of the Instant Web Publishing page, and test the Instant Web Publishing page with the currently published databases.

To configure Instant Web Publishing:

- Do either of the following:
 - Click the Publishing Engine link at the top of the Administration Console page, and click the Instant Web Publishing link.
 - In the Overview page, click the Instant Web Publishing link in the center of the page under the Publishing Engine heading.

The Publishing Engine Configuration: Instant Web Publishing page appears.

The screenshot displays the 'FileMaker Server Web Publishing Administration Console' interface. At the top, there are navigation tabs: 'Overview', 'Publishing Engine', 'FileMaker Server', and 'Administration'. Below these, there are links for 'General Settings', 'Instant Web Publishing', 'XML Publishing', and 'XSLT Publishing'. The main content area is titled 'Publishing Engine Configuration: Instant Web Publishing'. It features three configuration rows: 'Instant Web Publishing' with 'On' selected, 'URL' set to 'http://192.168.123.101/fmi/iwp', and 'Status Area Language' set to 'English'. A tip box below states: 'Tip: Enable or disable Instant Web Publishing of databases on the specified FileMaker Server. Or specify the language to use in status messages that appear in the Instant Web Publishing browser.' At the bottom, there are buttons for 'Commit', 'Revert', 'Restart Publishing Engine', and 'Logout', along with a status message: 'Console and Web Servers Require Restart'.

- To set the language for the labels displayed in the status area of the Instant Web Publishing page, choose a language from the **Status Area Language** menu.

The status area language setting does not change the language of data stored in databases.

- If you are finished making configuration changes in the Administration Console, click **Commit** to save the settings.

4. If you want the new committed settings to take effect immediately, click **Restart Publishing Engine**.
5. To test the Instant Web Publishing page with the currently hosted databases on FileMaker Server, click the link shown next to **URL**.

Disabling Instant Web Publishing

By default, Instant Web Publishing is enabled in the Web Publishing Engine. If necessary, you can disable it.

To disable Instant Web Publishing:

1. In the Publishing Engine Configuration: Instant Web Publishing page, select **Off**.

FileMaker Server Web Publishing Administration Console

Overview | **Publishing Engine** | FileMaker Server | Administration

[General Settings](#) | [Instant Web Publishing](#) | [XML Publishing](#) | [XSLT Publishing](#)

Publishing Engine Configuration: Instant Web Publishing

Instant Web Publishing: On Off

URL: <http://192.168.123.101/fmi/ftp>

Status Area Language: English

Tip: Enable or disable Instant Web Publishing of databases on the specified FileMaker Server. Or specify the language to use in status messages that appear in the Instant Web Publishing browser.

Console and Web Servers Require Restart | Commit | Revert | Restart Publishing Engine | Logout

If this label appears in red, you must restart the Administration Console and the web server to have the new settings take effect

2. If you are finished making configuration changes in the Administration Console, click **Commit** to save the settings.
3. Restart the Administration Console and the web server. See “Using the Web Publishing Engine and Administration Console services” on page 51.

Disabling Custom Web Publishing with XML

By default, Custom Web Publishing with XML is enabled in the Web Publishing Engine. If necessary, you can disable it.

To disable Custom Web Publishing with XML:

1. Do either of the following:
 - Click the Publishing Engine link at the top of the Administration Console page, and click the XML Publishing link.
 - In the Overview page, click the XML Publishing link in the center of the page under the Publishing Engine heading.
2. In the Publishing Engine Configuration: Custom Web Publishing with XML page, select Off.
3. If you are finished making configuration changes in the Administration Console, click Commit to save the settings.
4. Restart the Administration Console and the web server. See “Using the Web Publishing Engine and Administration Console services” on page 51.

Configuring Custom Web Publishing with XSLT

For Custom Web Publishing with XSLT, you can set the Web Publishing Engine in development or production mode, and configure server-side stylesheet caching, a SMTP email server, and default text encoding.

Setting the Web Publishing Engine mode

You can use the Web Publishing Engine in either of these modes:

- **Development mode:** Use Development mode when you are developing and testing XSLT stylesheets. In this mode, the Web Publishing Engine generates a web page with a specific error code number when an error occurs in the Web Publishing Engine itself. You cannot enable server-side stylesheet caching in Development mode.
- **Production mode:** Use Production mode when you are ready to use the Web Publishing Engine to host XSLT stylesheets. In this mode, the Web Publishing Engine displays a general text message defined in the `pe_server_error.html` error page when an error occurs in the Web Publishing Engine.

For more information on error reporting for the Web Publishing Engine, see the *FileMaker Server Advanced Custom Web Publishing Guide*.

To set the Web Publishing Engine mode:

1. Do either of the following:
 - Click the Publishing Engine link at the top of the Administration Console page, and click the XSLT Publishing link.
 - In the Overview page, click the XSLT Publishing link in the center of the page under the Publishing Engine heading.

The Publishing Engine Configuration: Custom Web Publishing with XSLT page appears.

The screenshot shows the FileMaker Server Web Publishing Administration Console. The title bar reads "FileMaker Server Web Publishing Administration Console". Below the title bar is a navigation menu with tabs for "Overview", "Publishing Engine", "FileMaker Server", and "Administration". Under the "Publishing Engine" tab, there are links for "General Settings", "Instant Web Publishing", "XML Publishing", and "XSLT Publishing". The main content area is titled "Publishing Engine Configuration: Custom Web Publishing with XSLT".

The configuration page is divided into several sections:

- XSLT Publishing:** A radio button is selected for "On", and "Off" is unselected.
- XSLT Publishing Settings:**
 - "Development mode" is selected with a radio button, and "Production mode" is unselected.
 - "stylesheet caching:" has "Enabled" unselected and "Disabled" selected.
 - "cache size:" is set to "Small" in a dropdown menu.
- Database Sessions:** "Enabled (web sessions use database sessions)" is selected with a radio button, and "Disabled (web sessions do not use database sessions)" is unselected.
- SMTP:**
 - "host:" is an empty text input field.
 - "port:" is set to "25" in a text input field.
 - "authentication:" is set to "None" in a dropdown menu.
 - "user:" is an empty text input field.
 - "password:" is an empty text input field.
- Default Text Encoding:**
 - "requests and output pages:" is set to "UTF-8" in a dropdown menu.
 - "email messages:" is set to "ISO-8859-1" in a dropdown menu.

At the bottom of the page, there is a tip box with the following text: "Tip: Enable or disable XSLT Custom Web Publishing of databases on the specified FileMaker Server. When you are ready to deploy your XSLT solution, select the Production option and set caching options. You can also specify a SMTP server and the type of text encoding that you want the Publishing Engine to use. To store script state and global field values between requests, enable database sessions. To allow greater scalability of the Publishing Engine, disable database sessions."

At the very bottom, there is a status bar with the text "Console and Web Servers Require Restart" in red. To the right of this text are four buttons: "Commit", "Revert", "Restart Publishing Engine", and "Logout".

2. Select Development mode or Production mode on the Custom Web Publishing with XSLT page.
3. If you are finished making configuration changes in the Administration Console, click Commit to save the settings.
4. If you want the new committed settings to take effect immediately, click Restart Publishing Engine.

Setting server-side XSLT stylesheet caching

Server-side caching stores frequently used XSLT stylesheets in memory, which increases Web Publishing Engine performance. The Web Publishing Engine uses caching only when it is in Production mode.

To set server-side XSLT stylesheet caching:

1. In the Publishing Engine Configuration: Custom Web Publishing with XSLT page, select Production mode.
2. For stylesheet caching, select Enabled.
3. Choose a size from the cache size menu:
 - Small: for solutions using less than 25 XSLT stylesheets
 - Medium: for solutions using between 25 and 100 XSLT stylesheets
 - Large: for solutions using more than 100 XSLT stylesheets
4. If you are finished making configuration changes in the Administration Console, click Commit to save the settings.
5. If you want the new committed settings to take effect immediately, click Restart Publishing Engine.

Configuring the interaction between web sessions and database sessions

Sessions allow you to store data or maintain states between requests. Custom Web Publishing with XSLT supports two types of sessions:

- database sessions: FileMaker Server creates a database session whenever it retrieves data for a request. The maximum number of concurrent database sessions is determined by your FileMaker Server license.
- web sessions: The Web Publishing Engine creates a web session whenever you use the `fmxml:create_session()` extension function in an XSLT stylesheet. For information on the `fmxml:create_session()` extension function, see the *FileMaker Server Advanced Custom Web Publishing Guide*. The maximum number of web sessions is limited only by the amount of memory on the Web Publishing Engine host computer.

In the Administration Console, you can use the Database Sessions option to configure the interaction between these two types of sessions. If you enable this option, the Web Publishing Engine uses a database session for each web session. Otherwise, the Web Publishing Engine does not use database sessions. This option is disabled by default.

There are trade-offs to enabling and disabling the Database Sessions option.

If you enable the Database Sessions option:

- Global variable values are stored between requests.
- If a script modifies a state, that state is maintained between requests. For example, privileges that are modified by the Relogin script step to switch accounts will persist between requests.
- The number of web sessions is limited to the maximum number of concurrent database sessions on FileMaker Server.

If you disable the **Database Sessions** option:

- Global variable values are not stored between requests.
- If a script modifies a state, that state is not maintained between requests.
- The number of web sessions is not limited to the maximum number of database sessions on FileMaker Server, which allows greater scalability to the Web Publishing Engine.

If your stylesheets do not use global variables or scripts that require a state to be maintained between requests, you should disable the **Database Sessions** option. The setting for the **Database Sessions** option applies to all stylesheets deployed on the Web Publishing Engine.

To configure the interaction between web sessions and database sessions:

1. For **Database Sessions** in the **Publishing Engine Configuration: Custom Web Publishing with XSLT** page, select **Enabled** or **Disabled**.
2. If you are finished making configuration changes in the Administration Console, click **Commit** to save the settings.
3. If you want the new committed settings to take effect immediately, click **Restart Publishing Engine**.

Configuring access to a mail server for the Web Publishing Engine

You can have the Web Publishing Engine send email messages by using one of the `fmxslt:send_email()` extension functions in an XSLT stylesheet. To use these email extension functions, you must configure access to a mail server for the Web Publishing Engine.

To configure access to a SMTP mail server for the Web Publishing Engine:

1. For **host** in the **SMTP** section of the **Custom Web Publishing with XSLT** page, enter the name of the host computer where the SMTP mail server is installed.
2. For **port**, enter the port to use.
The default is 25.
3. From the **authentication** menu, choose a type of SMTP authentication that is compatible with your SMTP mail server:
 - **None**: authentication is not used. This is the default setting.
 - **Plain Text**: plain text authentication is used.
 - **CRAM-MD5**: Challenge-Response Authentication Mechanism-Message Digest 5 authentication is used to encrypt the password for the SMTP mail server.
4. For **user** and **password**, enter the user name and password for logging into the SMTP mail server.
5. If you are finished making configuration changes in the Administration Console, click **Commit** to save the settings.
6. If you want the new committed settings to take effect immediately, click **Restart Publishing Engine**.

Setting the default text encoding for XSLT requests

When the Web Publishing Engine is first installed, the initial default text encoding for XSLT requests is UTF-8. For email messages, the default is ISO-8859-1. If necessary, you can change these default text encoding settings.

You can also override the default setting for individual requests by setting the charset attribute in the Content-Type request header, or by specifying an encoding with the `-encoding` query parameter. You can override the text encoding for email messages by using the `fmxslt:send_email(String smtpFields, String body, String encoding)` extension function. See the *FileMaker Server Advanced Custom Web Publishing Guide*.

To set the default text encoding for XSLT requests:

1. In the Default Text Encoding section of the Custom Web Publishing with XSLT page, choose a default text encoding from the requests and output pages menu.

Encoding	Description
US-ASCII	The basic ASCII character set that is typically used for plain text English email.
ISO-8859-1	The Latin 1 character set that is typically used for roman character based web pages and email messages requiring upper ASCII characters.
ISO-8859-15	The Latin 9 character set, which is almost the same as the Latin 1 character set with the addition of the Euro € symbol.
ISO-2022-JP	The ISO Japanese encoding that is typically used for Japanese email messages.
Shift_JIS	The Japanese encoding that is typically used for Japanese web pages.
UTF-8	The eight-bit encoding of Unicode. Using UTF-8 for email messages and web pages is growing in popularity as major browsers and mail clients have added support. Because UTF-8 supports the full range of Unicode characters, it can handle pages for any language.

2. Choose a default text encoding from the email messages menu.
3. If you are finished making configuration changes in the Administration Console, click **Commit** to save the settings.
4. If you want the new committed settings to take effect immediately, click **Restart Publishing Engine**.

Disabling Custom Web Publishing with XSLT

By default, Custom Web Publishing with XSLT is enabled in the Web Publishing Engine. If necessary, you can disable it.

To disable Custom Web Publishing with XSLT:

1. In the Publishing Engine Configuration: Custom Web Publishing with XSLT page, select **Off**.
2. If you are finished making configuration changes in the Administration Console, click **Commit** to save the settings.
3. Restart the Administration Console and the web server. See “Using the Web Publishing Engine and Administration Console services” on page 51.

Specifying general settings for the Web Publishing Engine

You can specify logging and session time-out settings for the Web Publishing Engine.

Specifying logging options for the Web Publishing Engine

With the exception of user logging, the logging options apply to both Instant Web Publishing and Custom Web Publishing. User logging applies only to Custom Web Publishing.

To change the logging options for the Web Publishing Engine:

1. Click the Publishing Engine link at the top of the Administration Console page.
The Publishing Engine Configuration: General Settings page appears.

FileMaker Server Web Publishing Administration Console			
Overview	Publishing Engine	FileMaker Server	Administration
General Settings Instant Web Publishing XML Publishing XSLT Publishing			
Publishing Engine Configuration: General Settings			
Address:	localhost change address change user name change password		
Access Logging:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled		
Error Logging:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled		
Script Logging:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled		
User Logging:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled		
Session Timeout:	<input type="text" value="15"/>	minutes	
<p>Tip: Change the address, user name, or password for the Publishing Engine. Or, set options for logging and timeout of Publishing Engine sessions.</p>			
<p>Console and Web Servers Require Restart <input type="button" value="Commit"/> <input type="button" value="Revert"/> <input type="button" value="Restart Publishing Engine"/> <input type="button" value="Logout"/></p>			

2. For the following logging options, select Enabled or Disabled:
 - **Access Logging:** enables the Web Publishing Core internal access logs, which are called `wpc_access_log.txt` and `pe_internal_access_log.txt`.
 - **Error Logging, Script Logging, and User Logging:** enables the Web Publishing Engine application log, which is called `pe_application_log.txt`.

For more information on the log files, see the *FileMaker Server Advanced Custom Web Publishing Guide*.
3. If you are finished making configuration changes in the Administration Console, click **Commit** to save the settings.
4. If you want the new committed settings to take effect immediately, click **Restart Publishing Engine**.

Setting the session time-out for the Web Publishing Engine

Instant Web Publishing solutions automatically use sessions and you cannot disable them. The value for **Session Timeout** on the **Publishing Engine Configuration: General Settings** page sets the session time-out for Instant Web Publishing, which is 15 minutes by default. If necessary, you can change the **Session Timeout** value.

Sessions are optional in Custom Web Publishing with XSLT and you create them by using the `fmxls:create_session()` extension function. The **Session Timeout** value sets the default session time-out for Custom Web Publishing with XSLT, and you can override the default by using the `fmxls:invalidate_session()` and `fmxls:set_session_timeout()` extension functions. See the *FileMaker Server Advanced Custom Web Publishing Guide*.

The **Session Timeout** value does not apply to Custom Web Publishing with XML.

To change the session time-out for the Web Publishing Engine:

1. For **Session Timeout** on the **Publishing Engine Configuration: General Settings** page, enter the number of minutes.
You can specify up to 60 minutes.
2. If you are finished making configuration changes in the Administration Console, click **Commit** to save the settings.
3. If you want the new committed settings to take effect immediately, click **Restart Publishing Engine**.

Changing the IP address of the Web Publishing Engine host

To change the IP address of the Web Publishing Engine host.

1. On the Publishing Engine Configuration: General Settings page, click the change address link.
2. Enter the IP address of the host computer where the Web Publishing Engine is installed, and click Continue.

If the Web Publishing Engine is installed on the same host as the web server and Administration Console, you can enter `localhost` as the address.

3. Click Apply.
4. Restart the Administration Console and the web server. See “Using the Web Publishing Engine and Administration Console services” on page 51.
5. Log into the Administration Console.
6. Enter the user name and password for the Web Publishing Engine.

Changing the user name and password for the Web Publishing Engine

You can change the user name and password for authenticating the Administration Console when it accesses the Web Publishing Engine.

To change the user name for the Web Publishing Engine:

1. On the Publishing Engine Configuration: General Settings page, click the change user name link.
2. Enter a new user name for the Web Publishing Engine.
3. Enter the current password for the Web Publishing Engine and click Apply.
4. Click Apply.

To change the password for the Web Publishing Engine:

1. On the Publishing Engine Configuration: General Settings page, click the change password link.
2. For Old Password, enter the current password for the Web Publishing Engine.
3. For New Password, enter a new password.
4. For Confirm Password, enter the same new password and click Apply.
5. Click Apply.

Restricting access to the Administration Console

You can prevent unauthorized access to the Administration Console by restricting access to hosts that have the IP addresses you specify. If you restrict access to one or more IP addresses, web users on unauthorized hosts cannot use the Administration Console to change configuration settings for the Web Publishing Engine. If you do not restrict access, all hosts can access the Administration Console.

To restrict access to the Administration Console:

1. Do either of the following:
 - Click the **Administration** link at the top of the Administration Console page.
 - In the **Overview** page, click the **Administration Console Server** link in the center of the page under the **Web Server** heading.

The **Administration Console Configuration: General Settings** page appears.

2. For **Administration Console Access Control**, select **Enabled**.
3. For **Administration Console Server** access restricted to these IP addresses, enter the IP addresses of the host computers you want to allow access to the Administration Console. Use a comma to separate the IP addresses.

For example:

The screenshot shows the 'Administration Console Configuration: General Settings' page. At the top, there is a navigation bar with tabs for 'Overview', 'Publishing Engine', 'FileMaker Server', and 'Administration'. Under the 'Administration' tab, there are links for 'General Settings', 'Change Administration User', 'Change Administration Password', and 'About Administration Console'. The main content area is titled 'Administration Console Configuration: General Settings'. It features a section for 'Administration Console Access Control' with two radio buttons: 'Enabled' (selected) and 'Disabled'. Below this is a text input field for 'Administration Console server access restricted to these ip addresses' containing the value '192.168.123.110,192.168.123.121'. A note below the field states '(Values should be comma separated)'. A tip box at the bottom of the configuration area reads: 'Tip: To restrict access to the Web Publishing Administration Console server to web browsers running on certain hosts, select the Enabled option and enter the IP address of each host.' At the bottom of the page, there is a status bar with a red warning 'Console and Web Servers Require Restart' and buttons for 'Commit', 'Revert', 'Restart Publishing Engine', and 'Logout'.

4. If you are finished making configuration changes in the Administration Console, click **Commit** to save the settings.
5. Restart the Administration Console and the web server. See “Using the Web Publishing Engine and Administration Console services” on page 51.

Viewing a list of the published databases for FileMaker Server

You can view a list of the currently published databases on FileMaker Server, and the types of publishing enabled in each database.

To view a list of published databases:

1. Do either of the following:
 - Click the FileMaker Server link at the top of the Administration Console page.
 - In the Overview page, click the FileMaker Server link in the center of the page under the Databases heading.
2. Click the Published Databases link.

The FileMaker Server Configuration: Published Databases page appears.

FileMaker Server Web Publishing Administration Console

Overview Publishing Engine FileMaker Server Administration

[Server Address](#) | Published Databases

FileMaker Server Configuration: Published Databases

Server: 192.168.123.101

Database	Instant Web Publishing	XML Publishing	XSLT Publishing
Catalog	+	+	-
Customers	-	+	+
Orders	(+)	+	-
Products	(+)	+	+

Tip: This page shows the types of publishing that are enabled in each of the currently published databases on the specified FileMaker Server. A "+" indicates that the extended privilege for the specified technology is enabled in the database. A "-" indicates the extended privilege is not enabled. A "(+)" indicates that the database will not appear on the Instant Web Publishing Homepage.

Console and Web Servers Require Restart Commit Revert Restart Publishing Engine Logout

Here is a summary of the symbols used in the list of published databases:

This symbol	Indicates
+	The extended privilege for the web publishing technology is enabled in the database.
-	The extended privilege for the web publishing technology is not enabled in the database.
(+)	The extended privilege for Instant Web Publishing is enabled in the database, and the Don't Display in Instant Web Publishing homepage option is enabled in the database.

Notes

- If you open a database hosted on FileMaker Server that has the extended privileges for web publishing enabled, the Web Publishing Engine automatically publishes it.
- If the Web Publishing Engine stops and restarts, it automatically publishes any hosted databases that have the extended privileges for web publishing enabled.
- If FileMaker Server stops and restarts, the Web Publishing Engine automatically reconnects with FileMaker Server and publishes any hosted databases that have the extended privileges for web publishing enabled.

Logging out of the Administration Console

Only one user can be logged into the Administration Console at any one time. If you don't log out, the Administration Console times out after 15 minutes and any uncommitted changes are not saved.

To log out of the Administration Console, click **Logout**.

Note To log into the Administration Console after completing the initial configuration, start the console and enter the user name and password you specified for the Administration Console. The **Overview** page appears first.

Using the Web Publishing Engine and Administration Console services

The Web Publishing Engine and the Administration Console run as services on the host computer where they are installed.

In Windows, the Web Publishing Engine and the Administration Console services start automatically if you selected the Automatic option in the installer (see step 11 in “Installing the Web Publishing Engine software components” on page 22). Otherwise, you must start the services manually in Windows by following the steps in this section.

In Mac OS X, the Web Publishing Engine and the Administration Console services start automatically whenever the host computer starts.

Whenever you commit a change to a setting in the Administration Console, you must restart the Web Publishing Engine to have the new setting take effect. You can restart the Web Publishing Engine according to the instructions in this section, or by clicking **Restart Publishing Engine** at the bottom of the Administration Console.

If the red indicator **Console and Web Servers Require Restart** appears at the bottom of the Administration Console, you must restart the Administration Console and web server. To restart the Administration Console, use the instructions in this section. For information on restarting your web server, see the web server documentation.

Starting, restarting, or stopping the services in Windows

To start, restart, or stop the Web Publishing Engine and Administration Console services (Windows):

1. Log out of the Administration Console.
2. Open the Services administrative tool.
3. Do any of the following:
 - To start, restart, or stop the Web Publishing Core component of the Web Publishing Engine, select the FileMaker Publishing Engine (WPC) service and click **Start**, **Restart**, or **Stop**.
 - To start, restart, or stop the Administration Console, select the FileMaker Publishing Engine (CONFIG) service and click **Start**, **Restart**, or **Stop**.
 - To start, restart, or stop the Custom Web Publishing Engine, select the FileMaker Publishing Engine (CWPE) service and click **Start**, **Restart**, or **Stop**.

Note If you installed the Administration Console and the Web Publishing Engine on the same host computer, the two services are combined into the FileMaker Publishing Engine (CWPE & CONFIG) service.

Starting, restarting, stopping, or disabling the services in Mac OS X

To start, restart, or stop the Web Publishing Engine and Administration Console services (Mac OS X):

1. Log out of the Administration Console.
2. Run the Terminal application.
3. On the Mac OS X command line, enter one of the following commands:
 - To start the Web Publishing Engine and Administration Console, enter:
`sudo SystemStarter start "FileMaker Web Publishing"`
 - To restart the Web Publishing Engine and Administration Console, enter:
`sudo SystemStarter restart "FileMaker Web Publishing"`

Note The preceding command restarts all services for the Web Publishing Engine and Administration Console. If you only need to restart the Web Publishing Engine, you can click **Restart Publishing Engine** at the bottom of the Administration Console.

- To stop the Web Publishing Engine and Administration Console, enter:
`sudo SystemStarter stop "FileMaker Web Publishing"`

To disable the Web Publishing Engine and Administration Console (Mac OS X):

1. Log out of the Administration Console.
2. Drag the FileMakerPublishingEngine folder out of the StartupItems folder in the Library folder.

The next time you restart the host computer, the Web Publishing Engine and Administration Console will not start automatically.

Changing the user name and password for the Administration Console

If necessary, you can change the user name and password that you enter when you log into the Administration Console.

To change the user name for the Administration Console:

1. Do either of the following:
 - Click the Administration link at the top of the Administration Console page.
 - In the Overview page, click the Administration Console Server link in the center of the page under the Web Server heading.
2. On the Administration Console Configuration: General Settings page, click the Change Administration User link.
3. Enter a new administrator user name for the Administration Console.
4. Enter the current password, and click Apply.

To change the password for the Administration Console:

1. On the Administration Console Configuration: General Settings page, click the Change Administration Password link.
2. Enter the current password for the Administration Console.
3. Enter a new password and click Apply.

Where to go from here

After you finish configuring the Web Publishing Engine, you're ready to use it for server-side Instant Web Publishing or Custom Web Publishing. For information on how to use Instant Web Publishing, see the *FileMaker Instant Web Publishing Guide*. For information on how to convert CDML solutions to FileMaker XSLT and develop FileMaker XSLT stylesheets, see the *FileMaker Server Advanced Custom Web Publishing Guide*.

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