

FileMaker® Server 8 Advanced

Web Publishing Installation Guide

IMPORTANT!
See page 13
for Installation
quick start



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Credits are listed in the Acknowledgements document provided with this software.

For more information, visit our web site at www.filemaker.com.

Edition: 01

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Chapter 1

Introduction

Welcome to FileMaker® Server Advanced, which includes the Web Publishing Engine and support for ODBC and JDBC.

- The Web Publishing Engine provides both Instant Web Publishing and Custom Web Publishing for FileMaker Server. Instant Web Publishing allows you to quickly and easily publish your database on the web. Custom Web Publishing with XML and XSLT gives you additional control over the design and functionality of your web pages.
- ODBC and JDBC are application programming interfaces (APIs). These APIs give client applications a common language for interacting with a variety of data sources and database services, including FileMaker.

About this guide

This guide, *FileMaker Server Advanced Web Publishing Installation Guide*, describes how to install and configure the web publishing components of FileMaker Server Advanced, including the Administration Console and the Web Publishing Engine, on Windows and Mac OS computers.

Two companion books describe how to use Instant Web Publishing and Custom Web Publishing:

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

This guide does not describe how to install and configure FileMaker Server. For information on how to install and configure FileMaker Server, see *FileMaker Server Administrator's Guide* and FileMaker Server Help.

This guide does not describe how to install ODBC and JDBC components. Use the FileMaker Server CD to install ODBC and JDBC drivers. For information on installing ODBC and JDBC components, see *Installing FileMaker ODBC and JDBC Client Drivers*. For information on how to use ODBC and JDBC with FileMaker products, see *FileMaker ODBC and JDBC Developer's Guide*.

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

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

Important You can download PDFs of FileMaker documentation from www.filemaker.com/downloads. Any updates to this document are also available from the website.

Hardware and software requirements

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

Note You must disable Access Control Lists in order to install the product. After installing, do not use ACL file permissions to control access to any FileMaker file. For more information, see the documentation that came with your operating system software.

Windows requirements for the Web Publishing Engine

Minimum requirements for 1-50 clients

- Intel-compatible PC with a Pentium III or Xeon processor, 1 GHz
- 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 (with Service Pack 1) 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 or Xeon processor, 2 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
- Windows Server 2003 Standard Edition (with Service Pack 1) 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

Windows requirements for FileMaker Site Assistant and FileMaker CDML Converter tools

- Intel-compatible PC with a Pentium III processor, 500 MHz
- 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 (with Service Pack 1)
- 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 the Web Publishing Engine

Minimum requirements for 1-50 clients

- Power Mac G4 computer, 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 10.3.9 (with Java Update for Mac OS X 10.3.9) or 10.4.2
- HFS and HFS+ file systems
- 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 or G5 computer, 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 10.3.9 (with Java Update for Mac OS X 10.3.9) or 10.4.2
- HFS and HFS+ file systems
- Apache HTTP Server (the version shipped with your operating system), enabled
- network connectivity to the Internet or an intranet via TCP/IP

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

- Power Mac G3, G4, or G5 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 10.3.9 (with Java Update for Mac OS X 10.3.9) or 10.4.2
- HFS and HFS+ file systems
- 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 in this requirements section. The Web Publishing Engine may or may not work with newer operating system releases. For information on compatibility with newer operating systems, see www.filemaker.com.

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 does not allow the Web Publishing Engine to connect without a FileMaker Server Advanced license key.

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

Tip 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*.

You can find the license key in your volume license agreement or in one of these documents in your product box:

- *Service Directory, License Keys, and Proof of Purchase*
- *License Key Information*

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 website, 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 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.

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

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

1. If you haven’t already done so, install a web server. For Windows, install Internet Information Services (IIS). For Mac OS, the Apache web server is installed as part of the operating system, but it needs to be enabled. For more information, see the instructions for your web server.

2. Install FileMaker Server. See *FileMaker Server Administrator’s Guide*.

Note If you are upgrading from the previous version of FileMaker Server, see the migration chapter in *FileMaker Server Administrator’s Guide* before installing the new version of FileMaker Server. If you have both FileMaker Server 7 and the Web Publishing Engine from FileMaker Server 7 Advanced already installed, you should upgrade both.

If you have already installed FileMaker Server, update its license key with a FileMaker Server Advanced license key. See FileMaker Server Help.

3. Install the Web Publishing Engine.

Note If you are upgrading from FileMaker Server 7 Advanced, see chapter 3, “Migrating web publishing settings from the previous version” before installing the new version of Web Publishing Engine.

For instructions on how to install FileMaker Server Advanced web publishing components in the simplest configuration, see chapter 2, “Installation quick start.” For information on additional configurations, see chapter 4, “Installing the Web Publishing Engine in various host configurations.”

- For details on installing the Web Publishing Engine in Windows, see chapter 5, “Installing the Web Publishing Engine in Windows.”
- For details on installing the Web Publishing Engine in Mac OS, see chapter 6, “Installing the Web Publishing Engine in Mac OS.”

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 44.
- For information on installing the tools in Mac OS, see “Installing the FileMaker Site Assistant and FileMaker CDML Converter” on page 48.

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

To register the Web Publishing Engine, you specify the FileMaker Server identifier and optional passcode for securing the connection between FileMaker Server and the Web Publishing Engine. See “Registering the Web Publishing Engine with FileMaker Server” on page 34.

6. In the Web Publishing Engine Administration Console, configure the Web Publishing Engine. See chapter 7, “Configuring the Web Publishing Engine.”
7. In FileMaker Pro, edit the privilege sets in each database you want to publish to include the extended privileges for Instant Web Publishing (`fmi:wp`) and for Custom Web Publishing (`fmxml` and `fmxmlt`).
 - For information on enabling Custom Web Publishing in a database, see *FileMaker Server Advanced Custom Web Publishing Guide*.
 - For information on enabling Instant Web Publishing in a database, see *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. For information on using Instant Web Publishing, see *FileMaker Instant Web Publishing Guide*.
 - Create a custom website or application to query the database for XML data via a query string in a URL. For information on using XML data with Custom Web Publishing, see *FileMaker Server Advanced Custom Web Publishing Guide*.
 - Create a custom website or application to query the database via XSLT stylesheets. You can create XSLT stylesheets by using the CDML Converter to convert CDML format files and then enhancing the converted stylesheets, or by creating new XSLT stylesheets. For information on using XSLT stylesheets with Custom Web Publishing, see *FileMaker Server Advanced Custom Web Publishing Guide*.

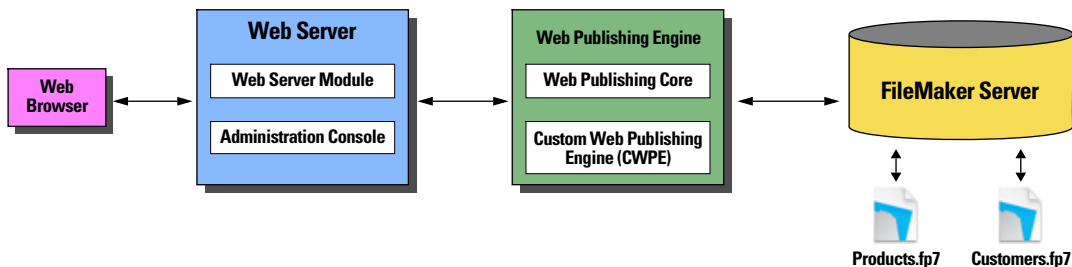
Chapter 2

Installation quick start

This quick start explains how to install FileMaker Server Advanced web publishing components in the simplest configuration—the single machine configuration—where all components are installed on a single machine. The single machine may be either a Windows server running Internet Information Services (IIS) or a machine running Mac OS X or Mac OS X Server.

For information on other machine configurations, see chapter 4, “Installing the Web Publishing Engine in various host configurations.”

About web publishing components



Web publishing with FileMaker Server Advanced uses the following components:

- **Web server.** FileMaker Server Advanced requires Internet Information Services (IIS) on Windows or an Apache web server on Mac OS. For Windows, install IIS before installing the Web Server Module and the Administration Console. For Mac OS, the Apache web server is installed as part of the operating system, but you need to enable web sharing.
- **Web Server Module and Administration Console.** These two software components are installed together on the web server host computer. The *Web Server Module* enables the Web Publishing Engine to connect to the web server. The *Administration Console* runs in a web browser, and you use it to configure the Web Publishing Engine via the connection through the web server.
- **Web Publishing Engine.** The Web Publishing Engine provides Instant Web Publishing and Custom Web Publishing services for databases hosted by FileMaker Server.
- **FileMaker Server.** FileMaker Server hosts the databases that you publish on the web.

Note “FileMaker Server Advanced” refers to the complete product that includes FileMaker Server, the Web Publishing Engine, and the Web Server Module/Administration Console unit. (FileMaker Server Advanced also contains other components, like ODBC and JDBC drivers, that are not specific to web publishing.)

Setting up the web server

Before installing web publishing components, ensure that the web server is properly configured. For more information on configuring a Windows IIS or a Mac OS Apache web server, refer to the web server's documentation for information on how to host a website on your server.

After you have ensured that the web server is running, use the following settings with FileMaker Server Advanced.

Windows IIS settings

By default, Windows IIS directory security attempts to authenticate all requests that are made via the IIS web server. The simplest approach for making IIS work with the Web Publishing Engine is to disable IIS Authentication.

To disable IIS Authentication:

1. Choose the **Start** button > **All Programs** > **Administrative Tools** > **Internet Information Services (IIS) Manager** to open the Internet Information Services Manager.
2. From **Web Sites**, select the default website and choose **Action** menu > **Properties**.
3. On the **Directory Security** properties page:
 - For Windows 2000 Server, click **Edit for Authentication Methods**.
 - For Windows 2003 Server, click **Edit for Authentication and access control**.
4. In the **Authentication** dialog box, do the following:
 - Ensure that **Anonymous Access** is enabled.
 - For **Authenticated** access, disable all of the authentication methods.

For more information about working with IIS directory security, see “Setting up authentication for a Windows IIS web site” on page 42.

Mac OS settings

Mac OS X Server with Web Server Module installed: Disable the Performance Cache option for the Apache web server. The performance cache may interfere with FileMaker Server Advanced and data may not refresh correctly.

To disable the performance cache on Mac OS X Server:

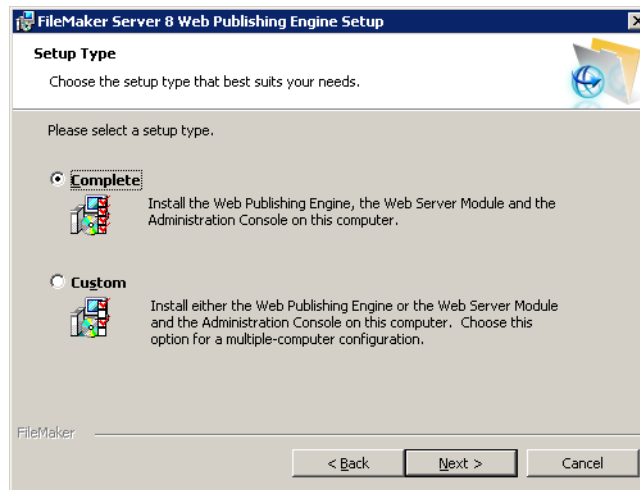
1. In the Mac OS X Server Admin, click **Web** in the list for the desired server.
2. Click **Settings** in the toolbar.
3. In the **Sites** pane, double-click the site in the list.
4. In the **Options** pane, deselect the **Performance Cache** option.

Installing the Web Publishing Engine

1. Run the FileMaker Server installer. Install and configure FileMaker Server on the target machine, entering a FileMaker Server Advanced license key. Before proceeding to step 2, ensure that you can access a hosted database (such as the `FMServer_sample` database) on FileMaker Server by using a FileMaker Pro client.

For more information about configuring FileMaker Server, refer to *FileMaker Server Administrator's Guide*.

2. Run the Web Publishing Engine installer.
 - Choose Complete (Windows) or Easy Install (Mac OS) to install all of the necessary components for the single machine configuration.

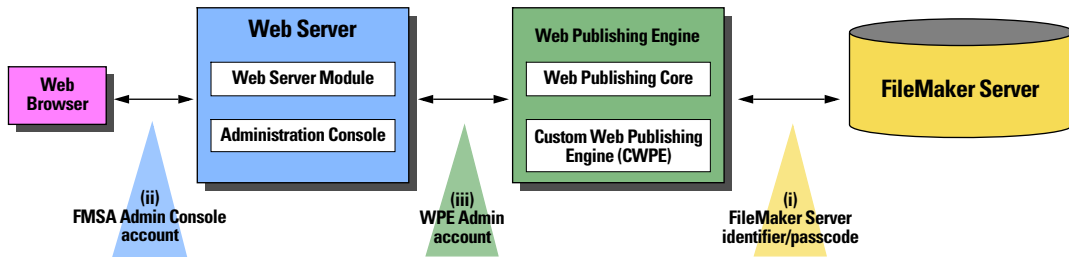


3. Restart the system to activate all required services.

All components are now installed. Before using them, you need to set up web publishing authentication by registering the Web Publishing Engine with FileMaker Server and by configuring the Web Publishing Engine, as described in the next sections.

About web publishing authentication

You should understand the following concepts before you register and configure the Web Publishing Engine.



The Web Publishing Engine uses three separate credentials to protect the system from improper use:

(i) FileMaker Server identifier and passcode. The FileMaker Server identifier and optional passcode create a unique connection between a Web Publishing Engine and an installation of FileMaker Server. This single connection between the Web Publishing Engine and FileMaker Server prevents an unauthorized Web Publishing Engine from connecting to a FileMaker server.

In the procedures described below, you create the FileMaker Server identifier and optional passcode in FileMaker Server Admin, in “Registering the Web Publishing Engine with FileMaker Server” on page 17. Then you enter the identifier and optional passcode into the Administration Console, in step 5 of “Configuring the Web Publishing Engine” on page 18.

(ii) FileMaker Server Advanced (FMSA) Administration Console account. The “FMSA Admin Console” account (user name and password combination) restricts access to the web interface that you use to configure FileMaker Server Advanced. As the administrator, you enter these credentials every time you log in to the Administration Console.

In the procedures described below, you create the user name and password in step 2 of “Configuring the Web Publishing Engine” on page 18.

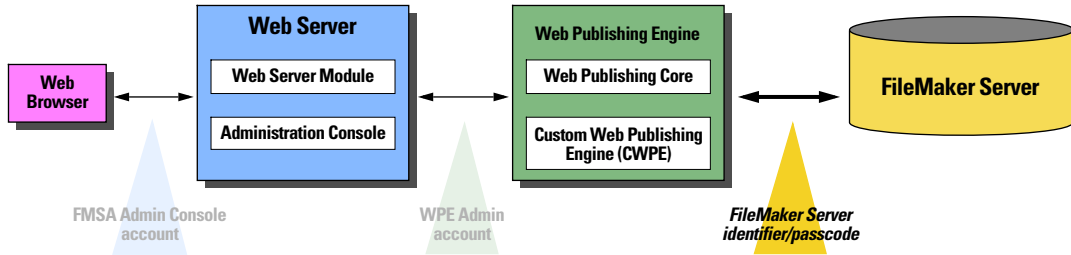
(iii) Web Publishing Engine (WPE) Admin account. The “WPE Admin” account (user name and password combination) secures the configuration interface of the Web Publishing Engine. This account authenticates the Administration Console to protect the Web Publishing Engine from connecting to an unauthorized Administration Console. These credentials are stored in the preferences for the Administration Console and are automatically used to connect and configure the Web Publishing Engine. As the administrator, you need to provide these credentials only during initial configuration or if the Administration Console is reinstalled or moved to a new machine.

In the procedures described below, you create the user name and password in step 4 of “Configuring the Web Publishing Engine” on page 18.

Note (Windows) If you do not disable IIS Directory Security, then you must create this user name and password as a local Windows account in order for the Administration Console to function properly.

Registering the Web Publishing Engine with FileMaker Server

In this process, use FileMaker Server Admin to register a FileMaker Server identifier and passcode string to protect the connection between the Web Publishing Engine and FileMaker Server. In a later step, you enter the identifier and passcode into the Administration Console (described in step 5 of “Configuring the Web Publishing Engine” on page 18).



Registering the identifier and passcode in FileMaker Server Admin (Windows)

1. In FileMaker Server Admin, choose Action menu > Connect to FileMaker Server.
2. In the Connect to FileMaker Server dialog box, choose (localhost) 127.0.0.1 and click Connect to connect to the FileMaker Server at address 127.0.0.1.
3. Choose Action menu > Properties to open the FileMaker Server Properties dialog box.
4. In the Properties dialog box, click the Clients tab.
5. Click Server Advanced Settings.

Note If the Server Advanced Settings button is disabled, you need to update the FileMaker Server license key with a FileMaker Server Advanced license key. See FileMaker Server Help for information on updating the FileMaker Server license key. Remember to restart your system after updating the license key.

6. In the Server Advanced Settings dialog box, click Add.
7. Enter the identifier and optional passcode for the Web Publishing Engine.

The identifier and passcode can be any text string of alphabetic or numeric characters. The identifier and passcode values are case-sensitive.

Remember the FileMaker Server identifier and passcode you just created, because they are used later in step 5 of “Configuring the Web Publishing Engine” on page 18.

Registering the identifier and passcode in FileMaker Server Admin (Mac OS)

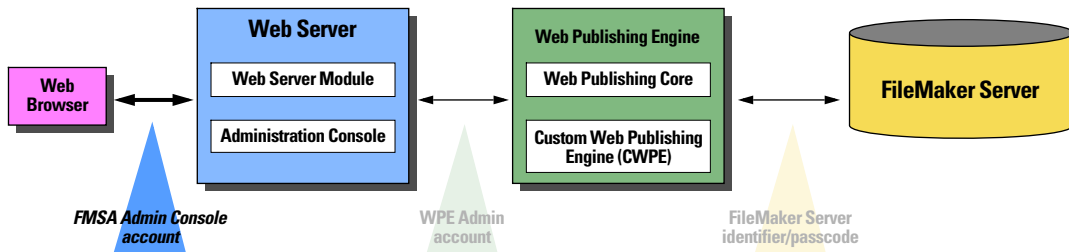
1. Connect to the FileMaker server at address 127.0.0.1.
2. Click the Configure icon on the toolbar.
3. In the Configure view, click the Clients tab, then click Add.
A new row appears in the FileMaker Web Publishing Engines list.
4. Double-click in the Identifier column of the new row and replace the placeholder text with the identifier for the Web Publishing Engine.
The identifier can be any text string of alphabetic or numeric characters. The identifier value is case-sensitive.
5. (Optional) Double-click the Passcode column, then enter a passcode.
Using a passcode provides additional security. The passcode can be any text string of alphabetic or numeric characters. The passcode value is case-sensitive.

Remember the FileMaker Server identifier and passcode you just created, because they are used later in step 5 of “Configuring the Web Publishing Engine.”

Configuring the Web Publishing Engine

In this process, use the Administration Console to complete the remaining configuration steps.

1. Load the Administration Console by opening a web browser window to this URL:
`http://localhost/fmi/config`
Note If you are using SSL, then you need to connect to this URL:
`https://<registered domain name>/fmi/config`
2. Create the FMSA Admin Console account:



In the Administration Console, create the FMSA Admin Console account (described in “About web publishing authentication” on page 16).

FileMaker Server Advanced 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

FMSA Admin Console User:

FMSA Admin Console Password:

Confirm Password:

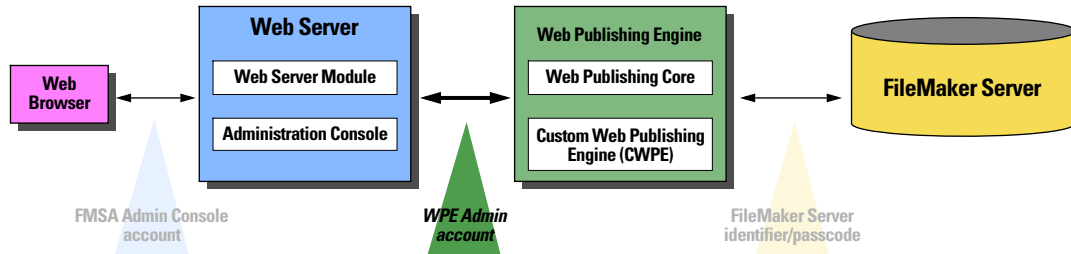
Clear Apply

Tip: Specify a user name and password for the admin account on the FileMaker Server Advanced (FMSA) Administration Console server. This user name/password combination is used to restrict access to the web interface used for configuring FileMaker Server Advanced. These credentials will be required every time an administrator logs in to the FMSA Administration Console.

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

- Enter a user name and password.
The user name and password can be any text string of alphabetic or numeric characters. The user name and password values are case-sensitive. As the administrator, you enter this user name and password every time you log in to the Administration Console.
 - Click Apply to proceed to the next screen.
3. Set the Web Publishing Engine address:
- Because this is a single machine configuration, select the option Publishing Engine is installed on the same machine as web server.
 - Click Continue to proceed to the next screen.

4. Create the WPE Admin account:



This screen of the Administration Console creates the WPE Admin account (described in “About web publishing authentication” on page 16).

The screenshot shows the 'FileMaker Server Advanced Web Publishing Administration Console' with the following elements:

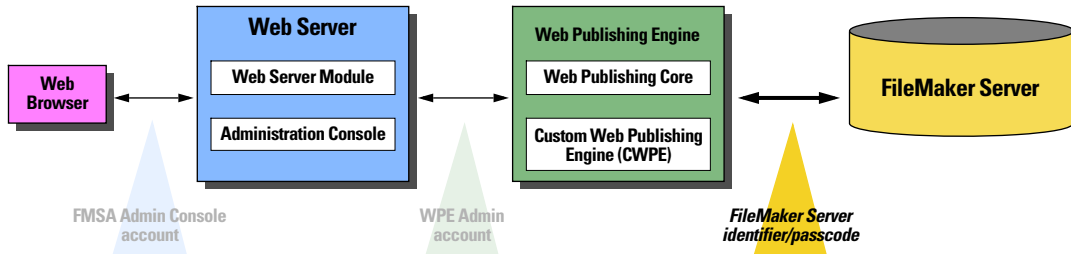
- Navigation tabs:** Overview, Publishing Engine, FileMaker Server, Administration.
- Sub-navigation tabs:** General Settings, Instant Web Publishing, XML Publishing, XSLT Publishing.
- Title:** Publishing Engine Configuration: Set Web Publishing Engine Authentication
- Fields:**
 - WPE Admin User:** [Text input field]
 - WPE Admin Password:** [Text input field]
 - Confirm Password:** [Text input field]
- Buttons:** Cancel, Apply
- Tip:** Specify a user name and password for the Web Publishing Engine (WPE) Admin Account - this user name/password is used to secure the configuration interface of the Web Publishing Engine. Its purpose is to authenticate the FMSA Admin Console to protect the Web Publishing Engine from being taken over by an unauthorized FMSA Admin Console.
- Footer:** Console and Web Servers Require Restart, Commit, Revert, Restart Publishing Engine, Logout

- Enter a user name and password.

The user name and password can be any text string of alphabetic or numeric characters. The user name and password values are case-sensitive. As the administrator, you enter this user name and password only during initial configuration and if the Administration Console is reinstalled or moved to a new machine.

- Click **Apply** to create the account.

5. Enter the FileMaker Server identifier and passcode:



This screen of the Administration Console configures the connection to FileMaker Server.

The screenshot shows the **FileMaker Server Advanced Web Publishing Administration Console** with the following elements:

- Header:** FileMaker Server Advanced Web Publishing Administration Console
- Status:** Publishing Engine address is configured correctly.
- Navigation:** Overview | Publishing Engine | **FileMaker Server** | Administration
- Server Address:** Published Databases
- FileMaker Server Configuration: Server Address**
 - Address:**
 - FileMaker Server is installed on the same machine as Web Publishing Engine.
 - FileMaker Server is installed on a different machine:
 - FileMaker Server Identifier:**
 - FileMaker Server Passcode:**
- Tip:** Indicate where FileMaker Server is installed. Enter the FileMaker Server identifier and passcode - this is the same identifier and passcode that is configured in the FileMaker Server Admin Tool. Click "Commit" to save the settings. Then click "Restart Publishing Engine" to apply the settings.
- Buttons:** Console and Web Servers Require Restart | Commit | Revert | Restart Publishing Engine | Logout

- Because this is a single machine configuration, select the option **FileMaker Server is installed on the same machine as Web Publishing Engine**.
- Enter the case-sensitive FileMaker Server identifier and passcode that you created in FileMaker Server Admin (described in “Registering the Web Publishing Engine with FileMaker Server” on page 17).
- Click **Commit** to save the changes made to the FileMaker Server settings.

6. The Administration Console displays a message confirming that the settings have been saved. Click OK to restart the Web Publishing Engine to apply the changes.

The Administration Console automatically displays the Overview tab, which lists the Web Server, Publishing Engine, and Databases.

FileMaker Server Advanced 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 (8.0.1.17)

| | |
|--|----|
| Instant Web Publishing | On |
| XML Publishing | On |
| XSLT Publishing | On |

Databases
[FileMaker Server](#)

Web Publishing Engine Started: 7/20/05 12:15 PM

Database Session Statistics:

| Current (refresh) | Limit |
|-------------------------------------|------------|
| (7/20/05 12:21 PM) | |
| IWP Database Sessions: 0 | |
| Total Sessions: 0 | 100 |

[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](#)

Verifying installation

The system is now configured. The default values that are established allow you to start publishing databases to the web with FileMaker Server Advanced.

To verify installation, try Instant Web Publishing. Web-enabled databases on FileMaker Server should now be accessible via the Instant Web Publishing homepage. Try accessing the sample database (`FMServer_Sample`) that is installed with FileMaker Server.

1. Connect to the Instant Web Publishing homepage by pointing a compatible web browser (Safari on Mac OS or Internet Explorer on Windows) to the URL:

`http://localhost/fmi/iwp`

2. The Database Homepage displays a list of databases accessible using Instant Web Publishing.
3. Click one of the database names to log in to the database.

You should see your FileMaker database rendered as a web page.

Chapter 3

Migrating web publishing settings from the previous version

FileMaker Server Advanced provides two Web Publishing Engine tools, Back Up Settings and Restore Settings, to help you move your web publishing settings from a FileMaker Server 7 Advanced installation to a FileMaker Server 8 Advanced installation that is on the same computer using the same configuration. These Web Publishing Engine tools do not migrate databases; they migrate *only* web publishing settings, preferences, and XSLT solutions.

Note FileMaker Server also provides two tools named Back Up Settings and Restore Settings. If FileMaker Server 7 is installed on the same computer as the Web Publishing Engine from FileMaker Server 7 Advanced, it is important to run the FileMaker Server Back Up Settings and Restore Settings tools *before* migrating the web publishing settings. For more information, see *FileMaker Server Administrator's Guide*.

Read this first

The steps listed below provide an overview of the migration process. See the remaining sections for more information about each step.

It is important to do the migration steps in the order they are presented. If you omit steps or don't follow the sequence, your web publishing solutions may not work properly or you may have to reconfigure your web publishing settings manually.

1. Stop all FileMaker Server 7 Advanced web publishing processes and services, including the web server itself.
2. Save your web publishing settings from FileMaker Server 7 Advanced using the Back Up Settings tool.
3. Uninstall FileMaker Server 7 Advanced.
4. Install FileMaker Server 8 Advanced.
5. Move your saved web publishing settings from FileMaker Server 7 Advanced to FileMaker Server 8 Advanced using the Restore Settings tool.
6. Confirm that migration was successful.

Step 1. Stop processes and services

You must stop all web publishing processes and services, including the Administration Console, the Web Publishing Engine, FileMaker Server, and the web server.

Stopping processes and servers (Windows)

1. Log out of the Administration Console.
2. Choose the Start button > All Programs > Administrative Tools > Services to open the Services administration tool.
3. To stop the Web Publishing Core component of the Web Publishing Engine, choose the FileMaker Publishing Engine (WPC) service and choose Action menu > Stop.
4. To stop the Administration Console, choose the FileMaker Publishing Engine (CONFIG) service and choose Action menu > Stop.
5. To stop the Custom Web Publishing Engine component, choose the FileMaker Publishing Engine (CWPE) service and choose Action menu > 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.

Stopping processes and servers (Mac OS)

1. Log out of the Administration Console.
2. Run the Terminal application (in the Utilities folder).
3. To stop the Web Publishing Engine and Administration Console, enter:

```
sudo SystemStarter stop "FileMaker Web Publishing"
```

Step 2. Save your settings

If you want to save your web publishing settings, you must use the Back Up Settings tool *before* you uninstall FileMaker Server 7 Advanced.

Note To run the Back Up Settings tool, you must use a login account with administrative privileges.

1. Insert the “FileMaker Server 8 Web Publishing” CD into the CD or DVD drive.
2. Run the Back Up Settings tool.
3. Mac OS: Enter your Mac OS authentication passphrase.
4. When the Back Up Settings tool is finished, click OK to quit the Back Up Settings tool.

Step 3. Uninstall FileMaker Server 7 Advanced

After you have saved your web publishing settings from FileMaker Server 7 Advanced, you can uninstall FileMaker Server 7 Advanced.

Important If you don't back up your settings, the uninstallation process deletes them, and you won't be able to use the Restore Settings tool.

Uninstalling FileMaker Server 7 Advanced (Windows)

To remove FileMaker Server 7 Advanced Web Publishing Engine from a computer:

1. Choose the Start button > Control Panel > Add or Remove Programs.
2. Select FileMaker Server 7 Advanced from the list, and click Remove.

Uninstalling FileMaker Server 7 Advanced (Mac OS)

Use the FileMaker Server 7 Advanced installer CD to uninstall the Web Publishing Engine software components.

To uninstall the Web Publishing Engine software components:

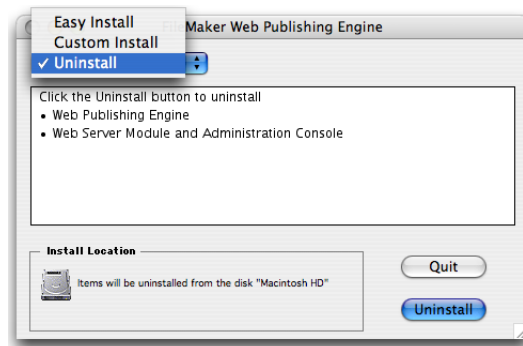
1. Insert the "FileMaker Server 7 Advanced" CD into the CD or DVD drive on the host computer where you want to install the Web Publishing Engine software components.

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

2. Double-click the installer icon.
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. Choose the Uninstall option, and click Uninstall to uninstall the Web Publishing Engine software.



Step 4. Install FileMaker Server 8 Advanced

Important Follow the standard installation instructions to install the FileMaker Server 8 Advanced web publishing components, but *do not restart* your system as suggested at the end of installation (restarting your system may restart web publishing processes and services).

- If you are installing the web publishing components on a one-computer configuration, see chapter 2, “Installation quick start.”
- To install the web publishing components using multiple-computer configurations, see chapter 4, “Installing the Web Publishing Engine in various host configurations.”

Step 5. Restore your settings

After you have saved your web publishing settings from FileMaker Server 7 Advanced and have installed FileMaker Server 8 Advanced, you can use the Restore Settings tool to move your web publishing settings to FileMaker Server 8 Advanced.

Note If you restarted the system after installing the web publishing components, you may need to stop the web publishing processes before restoring your settings, as described in “Step 1. Stop processes and services” on page 26.

1. Insert the “FileMaker Server 8 Web Publishing” CD into the CD or DVD drive.
2. Run the Restore Settings tool.
3. Mac OS: Enter your Mac OS authentication passphrase.
4. When the Restore Settings tool is finished, click OK to quit the Restore Settings tool.

Restart the system so that the restored settings take effect.

Step 6. Verify migration

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

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

where:

- `<scheme>` is either HTTP or HTTPS.
- `<host>` is the IP address or domain name of the host where the web server is installed.
- `<port>` is the optional port that the web server is using.

For example:

`http://192.168.100.110/fmi/config`

`http://localhost/fmi/config`

`https://webserver123.company.com/fmi/config`

2. Log in to the Administration Console using the same user name and password that you had used for version 7. (When the migration is successful, the user name and password for version 8 is the same as the user name and password you used for version 7.)

3. Check the other pages in the Administration Console to see that your other custom settings have been migrated.

For example, the FileMaker Server page should have the server identifier and server passcode migrated from version 7.

If the custom settings do not seem to be in effect, try restarting your system again to restart the FileMaker Server Advanced processes and services, and follow the verification steps again.

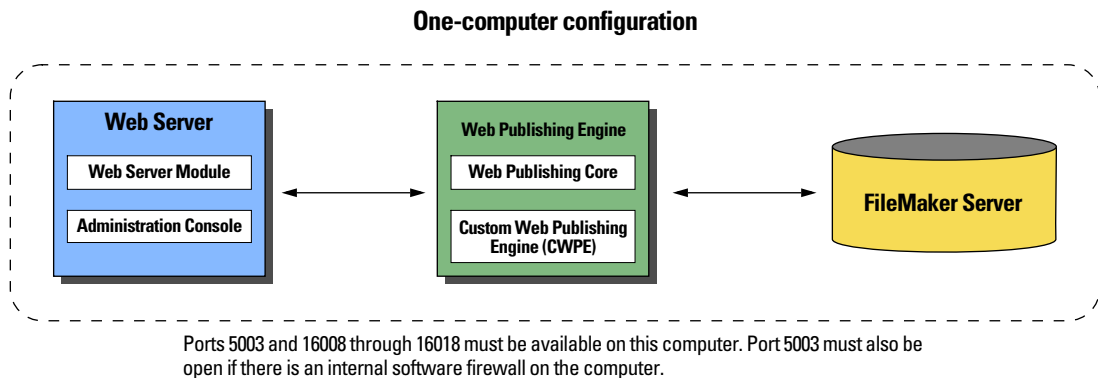
Chapter 4

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, 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.

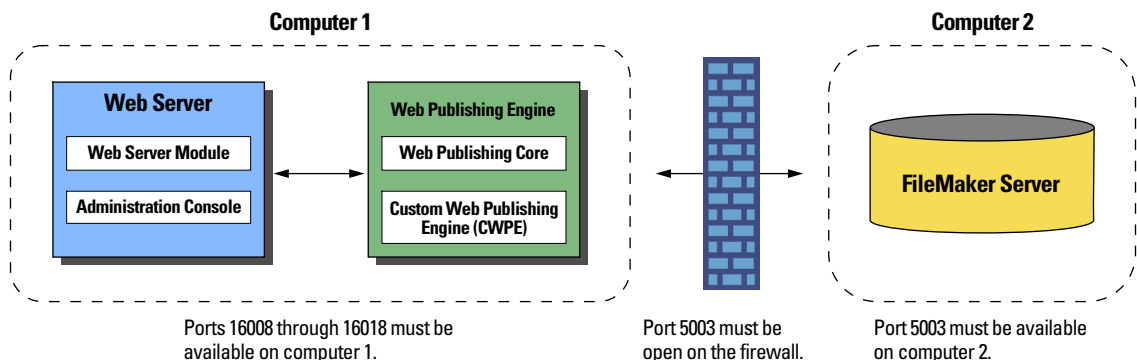


For information on installing the Web Publishing Engine in a one-computer configuration, see chapter 2, “Installation quick start.”

Two-computer configurations

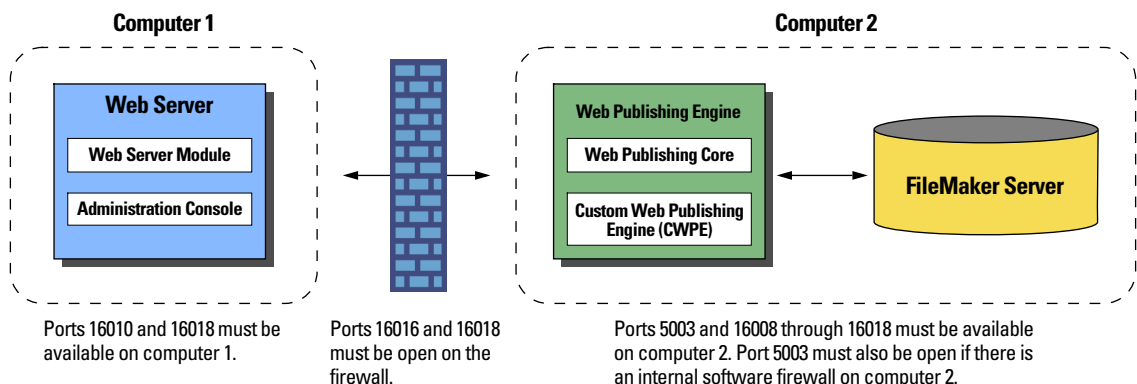
- Variation A:** You install the Web Publishing Engine, web server, Web Server Module, and Administration Console on one computer, and you install FileMaker Server on a second computer. This configuration separates all of the web-publishing related components from FileMaker Server.

Two-computer configuration, variation A



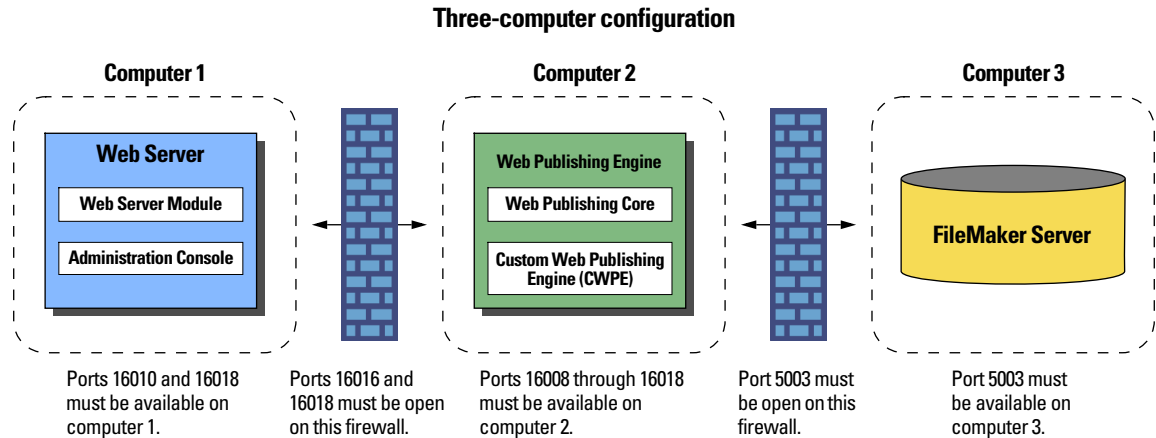
- Variation B:** You install the web server, Web Server Module, and Administration Console on one computer, and you install the Web Publishing Engine and FileMaker Server on a second computer. In this configuration, you can optionally locate the web server host computer on the outside of a firewall,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

Two-computer configuration, variation B



Three-computer configuration

You install the web server, Web Server Module, and Administration Console on one computer, install the Web Publishing Engine on a second computer, and install 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 Help.

Registering the Web Publishing Engine with FileMaker Server

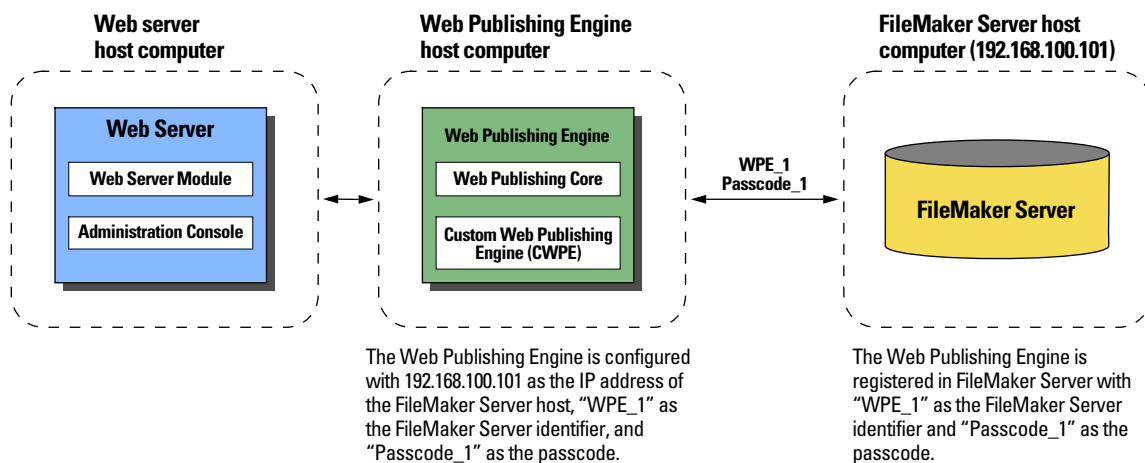
To enable web publishing in FileMaker Server, you must register the Web Publishing Engine with FileMaker Server by using FileMaker Server Admin to specify an:

- Identifier string that identifies the Web Publishing Engine to FileMaker Server.
- Optional passcode to make sure that your FileMaker Server connects only 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 Help. (See a description of the simplest case in “Registering the Web Publishing Engine with FileMaker Server” on page 17.)

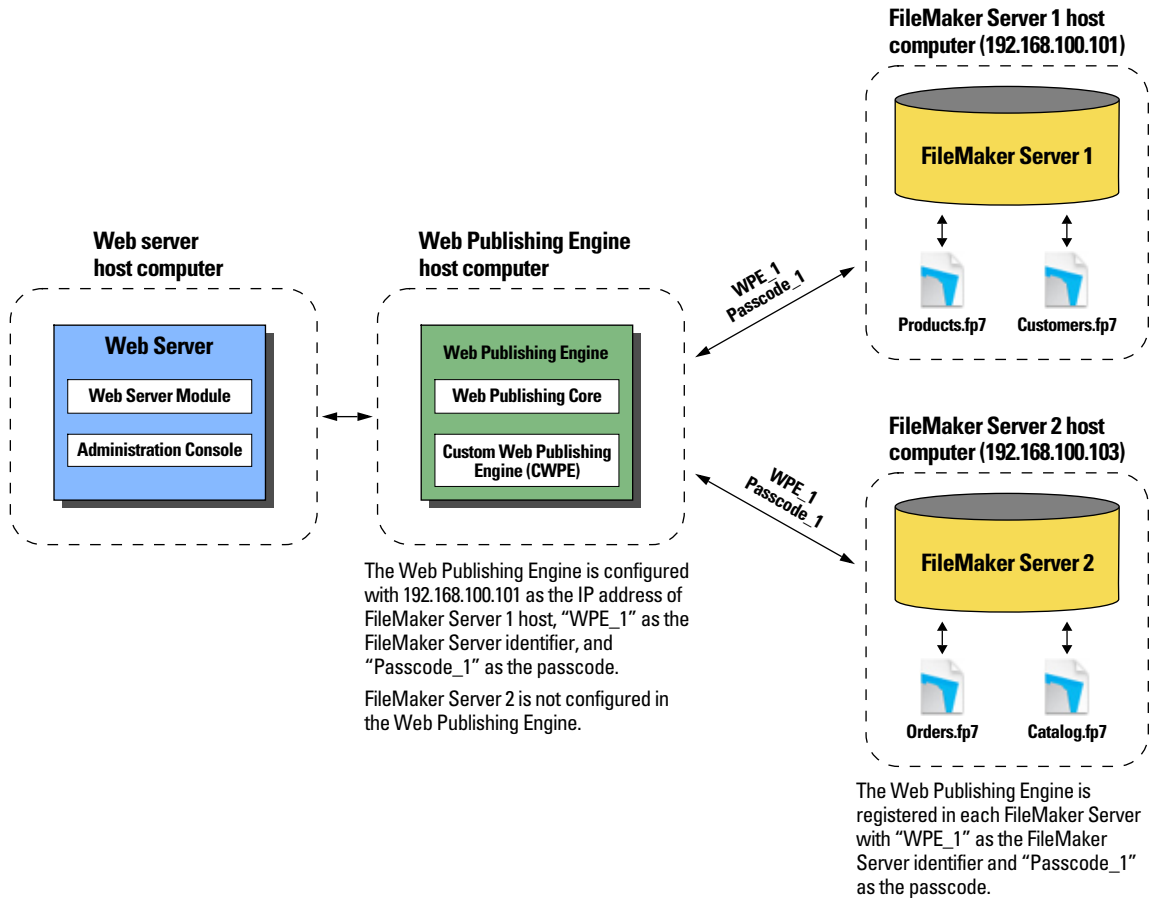
After registering the Web Publishing Engine in FileMaker Server, you must configure the Web Publishing Engine with the same identifier and passcode. See “Configuring the Web Publishing Engine for the first time” on page 50. To authenticate a connection for web publishing, FileMaker Server compares the 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/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 5

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* 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 chapter 4, “Installing the Web Publishing Engine in various host configurations.”

To create the one-computer configuration or variation A of the two-computer configurations, 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 variation B of the two-computer configurations, or in the three-computer 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 44.

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 “FM Server 8 Web” 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 8 Web Publishing CD window appears.

2. Click the Install icon.



3. Choose a language and click OK.

The default language selection matches your operating system language. A Complete Install installs 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.

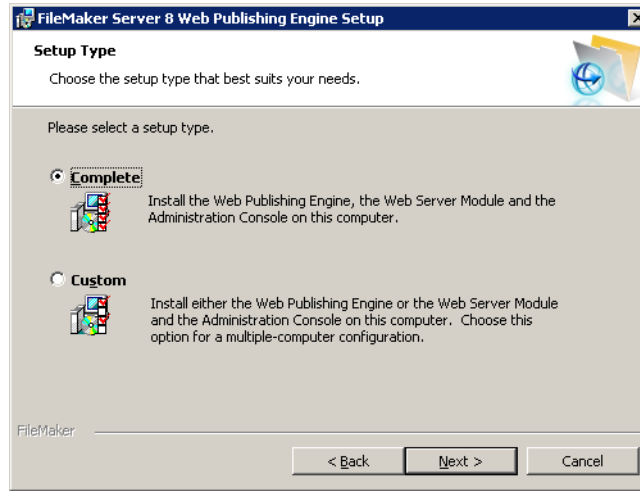
4. When the InstallShield Wizard for the FileMaker Server Web Publishing Engine appears, click Next.
5. Read and accept the terms of the license agreement and click Next.
6. Enter your customer information and click Next.

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\\Web Publishing

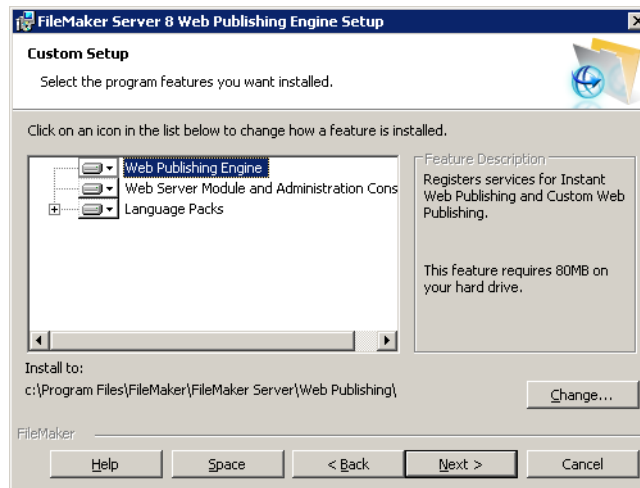
The Setup Type screen appears.



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), choose 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), choose Custom and click Next.

If you chose Custom, the Custom Setup screen appears.



9. Choose the items you want to install:

- To install the Web Publishing Engine only, choose **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, choose **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, choose 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 70.

Installing the Web Publishing Engine from the command line

To install the Web Publishing Engine from the command line:

1. Insert the “FM Server 8 Web” 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>\FMS 8 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 FMS 8 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 filename 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 43.

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 > 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 50.
- 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 > 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 (Windows)” on page 71.

Note If you’re running Windows 2000 Server and you uninstall a feature that contains a Web Publishing Engine service, the installer prompts 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 “FM Server 8 Web” CD into the CD or DVD drive on the host computer where you want to install the tools.

The FileMaker Server 8 Web Publishing 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 “FM Server 8 Web” 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>\FMS 8 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 FMS 8 Web Publishing Tools.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 7, “Configuring the Web Publishing Engine.”

Chapter 6

Installing the Web Publishing Engine in Mac OS

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 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 chapter 4, “Installing the Web Publishing Engine in various host configurations.”

To create the one-computer configuration or variation A of the two-computer configurations, you can use the **Easy Install** option. The **Easy Install** option installs the Web Publishing Engine component and the Web Server Module and Administration Console components on the same host computer.

In variation B of the two-computer configurations, or in the three-computer 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 48.

Before you install

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

- If you are using Mac OS X 10.3.9, make sure Java Update for Mac OS X 10.3.9 is installed on the host computer. If it isn't, use Software Update to install Java Update for Mac OS X 10.3.9 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.
- **Mac OS X Server with Web Server Module installed:** Disable the Performance Cache option for the Apache web server. The performance cache may interfere with FileMaker Server Advanced and data may not refresh correctly.

To disable the Performance Cache on Mac OS X Server 10.3:

1. In the Mac OS X Server Admin, click **Web** in the list for the desired server.
2. Click **Settings** in the toolbar.
3. In the **Sites** pane, double-click the site in the list.
4. In the **Options** pane, deselect the **Performance Cache** option.

Installing the Web Publishing Engine software components

To install the Web Publishing Engine software components:

1. Insert the “FileMaker Server 8 Web Publishing” 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 `fmadmin` 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** 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 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 (Mac OS)” on page 71.

To uninstall the Web Publishing Engine software components:

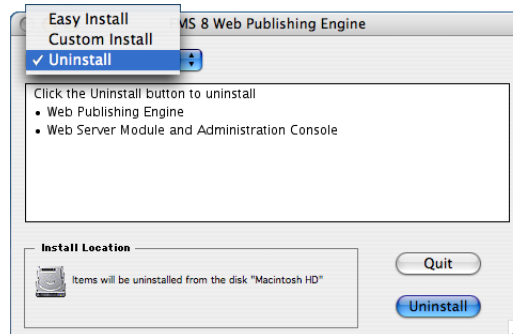
1. Insert the “FileMaker Server 8 Web Publishing” CD into the CD or DVD drive on the host computer where you want to install the Web Publishing Engine software components.

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. Choose the Uninstall option, and click Uninstall to uninstall the Web Publishing Engine software.



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 8 Web Publishing” 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 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 7, “Configuring the Web Publishing Engine.”

Chapter 7

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:

- a FMSA Admin Console account, a user name and password for the Administration Console
- IP address of the host computer where the Web Publishing Engine is installed
- a WPE Admin account, a user name and password for the Web Publishing Engine
- IP address of the host computer where FileMaker Server is installed
- FileMaker Server 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 59.
- Custom Web Publishing with XML: See “Disabling Custom Web Publishing with XML” on page 60.
- Custom Web Publishing with XSLT: See “Disabling Custom Web Publishing with XSLT” on page 64.

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 60.
 - server-side stylesheet caching: See “Setting server-side XSLT stylesheet caching” on page 62.
 - database sessions: See “Configuring the interaction between web sessions and database sessions” on page 62.
 - SMTP email server settings: See “Configuring access to a mail server for the Web Publishing Engine” on page 63.
 - default text encoding settings: See “Setting the default text encoding for XSLT requests” on page 64.
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 65.
 - session time-out settings: See “Setting the session time-out for the Web Publishing Engine” on page 66.
5. As necessary, restrict access to the Administration Console from particular IP addresses. See “Restricting access to the Administration Console” on page 67.

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:

- an FMSA Admin Console account (user name and password), which is 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 WPE Admin account (user name and password) for the Web Publishing Engine, which is 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`

`https://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.

The screenshot shows the 'FileMaker Server Advanced Web Publishing Administration Console' interface. 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: Configure Administration Account'. It contains three input fields: 'FMSA Admin Console User:', 'FMSA Admin Console Password:', and 'Confirm Password:'. Below these fields are 'Clear' and 'Apply' buttons. A tip box at the bottom states: 'Tip: Specify a user name and password for the admin account on the FileMaker Server Advanced (FMSA) Administration Console server. This user name/password combination is used to restrict access to the web interface used for configuring FileMaker Server Advanced. These credentials will be required every time an administrator logs in to the FMSA Administration Console.' At the very bottom, there are buttons for 'Console and Web Servers Require Restart', 'Commit', 'Revert', 'Restart Publishing Engine', and 'Logout'.

2. Enter a FMSA Admin Console 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 FMSA Admin Console user name and password.

3. Click Apply.

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

The screenshot displays the 'FileMaker Server Advanced Web Publishing Administration Console' interface. At the top, there is a navigation bar with tabs for 'Overview', 'Publishing Engine', 'FileMaker Server', and 'Administration'. Below this, a sub-navigation bar shows 'General Settings', 'Instant Web Publishing', 'XML Publishing', and 'XSLT Publishing'. The main content area is titled 'Publishing Engine Configuration: Set Publishing Engine Address'. Under the 'Address:' label, there are two radio button options: 'Publishing Engine is installed on the same machine as web server.' (which is selected) and 'Publishing Engine is installed on a different machine:' followed by an empty text input field. Below these options are 'Cancel' and 'Continue' buttons. At the bottom of the console, a status bar contains buttons for 'Console and Web Servers Require Restart', 'Commit', 'Revert', 'Restart Publishing Engine', and 'Logout'. A tip box at the bottom left states: 'Tip: Indicate the address of the Publishing Engine. If it is installed on a different machine from the web server, then enter a domain name or IP address.'

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, select the option Publishing Engine is installed on the same machine as web server. Select this option for a one-computer configuration (described in “One-computer configuration” on page 31) and for variation A of the two-computer configuration (described in “Two-computer configuration, variation A” on page 32).

5. Click Continue.

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

The screenshot displays the 'FileMaker Server Advanced Web Publishing Administration Console' interface. At the top, there are navigation tabs for 'Overview', 'Publishing Engine', 'FileMaker Server', and 'Administration'. Below these, there are sub-tabs for 'General Settings', 'Instant Web Publishing', 'XML Publishing', and 'XSLT Publishing'. The main content area is titled 'Publishing Engine Configuration: Set Web Publishing Engine Authentication'. It contains three input fields: 'WPE Admin User:', 'WPE Admin Password:', and 'Confirm Password:'. Below the input fields are 'Cancel' and 'Apply' buttons. A tip box at the bottom of the main area reads: 'Tip: Specify a user name and password for the Web Publishing Engine (WPE) Admin Account - this user name/password is used to secure the configuration interface of the Web Publishing Engine. Its purpose is to authenticate the FMSA Admin Console to protect the Web Publishing Engine from being taken over by an unauthorized FMSA Admin Console.' At the very bottom of the console, there are buttons for 'Console and Web Servers Require Restart', '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 FileMaker Server Configuration: Server Address page appears.

The screenshot displays the 'FileMaker Server Advanced Web Publishing Administration Console' interface. At the top, a blue banner reads 'Publishing Engine address is configured correctly.' Below this is a navigation bar with tabs for 'Overview', 'Publishing Engine', 'FileMaker Server', and 'Administration'. The 'FileMaker Server' tab is active, showing a breadcrumb trail: 'Server Address | [Published Databases](#)'. The main content area is titled 'FileMaker Server Configuration: Server Address' and contains the following fields:

- Address:** A radio button is selected for 'FileMaker Server is installed on the same machine as Web Publishing Engine.' The other option is 'FileMaker Server is installed on a different machine:' followed by an empty text input field.
- FileMaker Server Identifier:** An empty text input field.
- FileMaker Server Passcode:** An empty text input field.

A tip box below the fields states: 'Tip: Indicate where FileMaker Server is installed. Enter the FileMaker Server identifier and passcode - this is the same identifier and passcode that is configured in the FileMaker Server Admin Tool. Click "Commit" to save the settings. Then click "Restart Publishing Engine" to apply the settings.'

At the bottom of the console, there is a status bar with the text 'Console and Web Servers Require Restart' and four buttons: 'Commit', 'Revert', 'Restart Publishing Engine', and 'Logout'.

8. 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 Publishing Engine, select the option **FileMaker Server is installed on the same machine as Web Publishing Engine**. Select this option for a one-computer configuration (described in “One-computer configuration” on page 31) and for variation B of the two-computer configuration (described in “Two-computer configuration, variation B” on page 32).

9. Enter an identifier for the FileMaker Server.

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 Admin for the Web Publishing Engine.

10. If you registered a passcode in FileMaker Server Admin for the Web Publishing Engine, enter the same passcode in the **FileMaker Server Configuration: Server Address** page. (The passcode is optional.)

Note If you want to revert back to the previously saved settings, click **Revert**.

For information on the FileMaker Server identifier and passcode, see “Registering the Web Publishing Engine with FileMaker Server” on page 34.

11. 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**.

If this is the initial configuration, Administration Console displays a message confirming that the settings have been saved.

12. Click **OK** to restart the Web Publishing Engine to apply the changes.

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, FileMaker Server 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.

The following Overview page shows a one-computer configuration where all of the components are installed on one host with the address 192.168.123.101. Your Overview page appears slightly different if you are using a two- or three-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 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.

FileMaker Server Advanced 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 (8.0.1.17)
[Instant Web Publishing](#) On
[XML Publishing](#) On
[XSLT Publishing](#) On

Databases
[FileMaker Server](#)

Web Publishing Engine Started: 7/20/05 12:15 PM

| | | |
|-------------------------------------|--|--------------|
| Database Session Statistics: | Current (refresh) | Limit |
| | (7/20/05 12:21 PM) | |
| IWP Database Sessions: | 0 | |
| Total Sessions: | 0 | 100 |

[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

If the FileMaker Server identifier and passcode authentication fails, then Overview page shows a message indicating that the access to the server is restricted. The following Overview page shows an example of this message.

The passcode authentication failed. Verify that the FileMaker Server identifier and passcode are set correctly in FileMaker Server Admin.

FileMaker Server Advanced 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 (8.0.1.17)
[Instant Web Publishing](#) On
[XML Publishing](#) On
[XSLT Publishing](#) On

Databases
 Access to the specified FileMaker Server is restricted. Verify that this Publishing Engine is enabled in the FileMaker Server Administration Tool or [click here](#) to specify an alternate server.

[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

For information on registering the FileMaker Server identifier and passcode, see “Registering the Web Publishing Engine with FileMaker Server” on page 34.

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:

1. 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.

FileMaker Server Advanced 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/iwp>

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

2. 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.

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**.

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**.

The screenshot shows the 'FileMaker Server Advanced Web Publishing Administration Console' interface. The 'Publishing Engine' tab is active, and the 'Instant Web Publishing' configuration page is displayed. The 'Instant Web Publishing' option is set to 'Off'. The URL is 'http://192.168.123.101/fmi/iwp' and the Status Area Language is 'English'. A red message bar at the bottom indicates 'Console and Web Servers Require Restart'. The 'Commit' button is highlighted in red, and the 'Restart Publishing Engine' button is also highlighted in red.

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 70.

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 70.

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 displays the 'FileMaker Server Advanced Web Publishing Administration Console' interface. The top navigation bar includes 'Overview', 'Publishing Engine', 'FileMaker Server', and 'Administration'. Under 'Publishing Engine', 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' and contains several sections:

- XSLT Publishing:** A radio button is selected for 'On', with 'Off' as an alternative.
- XSLT Publishing Settings:**
 - 'Development mode' is selected with a radio button, while 'Production mode' is unselected.
 - 'stylesheet caching:' has 'Enabled' selected with a radio button, and 'Disabled' is unselected.
 - 'cache size:' is set to 'Small' in a dropdown menu.
- Database Sessions:**
 - 'Enabled (web sessions use database sessions)' is unselected.
 - 'Disabled (web sessions do not use database sessions)' is selected with a radio button.
- 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.

A tip box at the bottom of the configuration area reads: '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.'

The bottom of the console features a row of buttons: 'Console and Web Servers Require Restart', '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 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 persist between requests.
- The total number of web sessions is limited to the maximum number of concurrent web database sessions on FileMaker Server. This limit applies both to IWP (instant web publishing) sessions and XSLT sessions.

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

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

If your stylesheets do not use global values 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 70.

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.

The screenshot shows the 'FileMaker Server Advanced Web Publishing Administration Console' interface. At the top, there are navigation tabs: 'Overview', 'Publishing Engine', 'FileMaker Server', and 'Administration'. Under 'Publishing Engine', there are sub-links for 'General Settings', 'Instant Web Publishing', 'XML Publishing', and 'XSLT Publishing'. The main content area is titled 'Publishing Engine Configuration: General Settings' and contains several configuration options:

- Address:** localhost, with links for 'change address', 'change user name', and 'change password'.
- Access Logging:** Enabled Disabled
- Error Logging:** Enabled Disabled
- Script Logging:** Enabled Disabled
- User Logging:** Enabled Disabled
- Session Timeout:** 15 minutes (with a text input field containing '15')

A tip box at the bottom states: 'Tip: Change the address, user name, or password for the Publishing Engine. Or set options for logging and timeout of Publishing Engine sessions. The session timeout may be set from 1-60 minutes.' At the very bottom, there are buttons for 'Commit', 'Revert', 'Restart Publishing Engine', and 'Logout', along with a status message: 'Console and Web Servers Require Restart'.

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 `fmxslt: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 `fmxslt:invalidate_session()` and `fmxslt: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 70.
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.

Tip To allow access on the machine where the Administration Console is installed, include the localhost IP address in the list: 127.0.0.1.

For example:

The screenshot displays the 'FileMaker Server Advanced Web Publishing Administration Console' interface. At the top, there are navigation tabs: Overview, Publishing Engine, FileMaker Server, and Administration. Below these 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'. A section for 'Administration Console Access Control' is highlighted in blue, showing radio buttons for 'Enabled' (selected) and 'Disabled'. Below this is a text input field for 'Administration Console server access restricted to these ip addresses:' containing the IP addresses '192.168.123.110,192.168.123.121,127.0.0.1'. A tip box below the field states: '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 console, a red warning message reads 'Console and Web Servers Require Restart', followed by 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 70.

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:

- 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.
- Click the Published Databases link.

The FileMaker Server Configuration: Published Databases page appears.

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 38). Otherwise, you must start the services manually in Windows by following the steps in this section.

In Mac OS, 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 (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 (Mac OS)

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

1. Log out of the Administration Console.
2. Run the Terminal application.
3. On the Mac OS 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):

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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