Dynamic publishing technology for creative Web-based and data-driven solutions

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Dynamic publishing technology for creative Web-based and data-driven solutions
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Glossary
Introduction

Before you begin, take time to review this chapter so that you understand how *A Guide to QuarkXPress® Server 7* is structured and how you can get the most out of it.

**ABOUT THIS GUIDE**

You do not need to read this guide from cover to cover. Instead, use this guide to quickly look up information, find out what you need to know, and proceed with your work. Use the detailed table of contents at the beginning of the guide to find information quickly.

**WHAT YOU WILL SEE**

Various conventions (styles) in this guide highlight information to help you quickly find what you need.

**BOLD TYPE STYLE CONVENTION**

The names of menu commands, dialog boxes, and other controls are set in bold type. For example: “You can use the Colors palette to apply colors or inks to text, pictures, lines, and box backgrounds.”

**REFERENCES AND ARROWS**

Whenever a feature is mentioned, a reference shows you how to access that feature. For example: “You can use the Save as dialog box (File menu) to save a copy of a project.” Arrows indicate the menu path to a feature. For example: “Choose File → Print to display the Print dialog box.”

**MAC OS AND WINDOWS REFERENCES**

QuarkXPress Server is quite consistent across operating systems. However, some labels, buttons, key combinations, and other aspects of QuarkXPress Server must differ between Mac OS® and Windows® because of user interface conventions or other factors. In such cases, both the Mac OS and Windows versions are presented, separated by a slash, with the Mac OS version presented first. For example, if the Mac OS version of a button is labeled Select and the Windows version is labeled Browse, you are directed to “Click Select/Browse.” More-complex cross-platform differences are mentioned in notes or parenthetical statements.

**NOTES**

Notes cover additional information about particular features or concepts. They may also contain suggestions to improve your workflow or to perform a step more efficiently.
Chapter 1: Getting started with QuarkXPress Server

QuarkXPress Server lets you use a Web browser to view and output QuarkXPress projects in a variety of formats.

UNDERSTANDING QUARKXPRESS SERVER

QuarkXPress Server lets you output customized QuarkXPress layouts in a variety of formats (including JPEG, Portable Document Format — PDF, and PostScript®) from a centralized QuarkXPress Server application. To send a request to a QuarkXPress Server application, all you need to do is enter a URL into your Web browser’s address field. For example, the following URL instructs the QuarkXPress Server application named “QXPServer7” to return the file “MyProject.qxp” as a PDF file:

http://QXPServer7:8080/PDF/MyProject.qxp

The QuarkXPress Server application receives these requests, renders (creates) the requested projects in the requested formats, and then returns the rendered file to the client application (in this case, the Web browser).

The format of QuarkXPress Server URL requests is described in detail in Chapter 3, “Creating URL requests,” and in the QuarkXPress Server Web Integration Guide.

You can also create custom applications that communicate with a QuarkXPress Server application using HTTP, Simple Object Access Protocol (SOAP), or another protocol. For more information, see the QuarkXPress Web Integration Guide.

You can think of QuarkXPress Server as a special version of QuarkXPress that runs on a server with the following main differences:

• Instead of accepting input from a keyboard and mouse, QuarkXPress Server accepts input in the form of URLs.
• Instead of sending a project to a printer, QuarkXPress Server renders (creates) output in a particular format and sends the rendered file to a client.
SERVER TEMPLATES AND STATIC PROJECTS
QuarkXPress Server can open, render, and serve two types of projects:

- **Static projects** are QuarkXPress projects that can be rendered and served as-is in a variety of formats by the QuarkXPress Server application. For example, you might make a product manual available as a static project and allow customers to download that manual in a variety of formats.

- **Server templates** are QuarkXPress projects that can be manipulated by the QuarkXPress Server application before being rendered and served. For example, you might make a sales piece available as a server template so that each person who downloads it receives a personalized copy.

QuarkXPress Server can open QuarkXPress documents, projects, and templates created in any non-East-Asian edition of QuarkXPress 5.0 or later. QuarkXPress Server can save and export projects only in QuarkXPress 6.x and QuarkXPress 7.x format.

THE DOCUMENT POOL
QuarkXPress Server reads server templates and static projects from a directory called the **document pool**. The document pool can be any directory that is available to QuarkXPress Server through a file system or an FTP server. You can use any of the following methods to place files in the document pool:

- Drag the files to the document pool directory.
- Upload the files using FTP to the document pool directory.
- Use Telegraph XTensions® software to upload the files to the document pool from within QuarkXPress. (For more information about Telegraph XTensions software, see Chapter 5, “Telegraph XTensions software.”)

For more information about the document pool, see “**Server configuration** dialog box” in Chapter 2, “The QuarkXPress Server user interface.”

QuarkXPress Server 7 can also serve documents from a database, a content management system, or other sources. Collectively, the document pool and any other source of files to be served are referred to as **document providers**.

PROJECTS AND LAYOUTS
QuarkXPress projects can contain one or more layouts, and only one layout can be rendered at any given time. If you do not specify a layout when you send a rendering request, QuarkXPress Server renders the first layout in the project.
CACHING
To maximize efficiency, QuarkXPress Server uses cached versions of all rendered projects whenever possible. You can configure projects so that they are never cached, so that they are cached for a particular amount of time, or so that they are rendered every time they are served. For more information about caching, see “Server configuration dialog box” in Chapter 2, “The QuarkXPress Server user interface.”

QUARKXPRESS SERVER PREFERENCES
When you launch QuarkXPress Server, the application creates preferences files that are functionally and structurally equivalent to the preferences files created by QuarkXPress. These preferences files reside in the QuarkXPress Server “Preferences” folder. QuarkXPress Server also creates an “XPressServer Preferences.prf” file in the “Preferences” folder; this file contains preference settings that are specific to QuarkXPress Server.

QuarkXPress Server uses these preferences the same way QuarkXPress uses them. If an XTensions module creates a project in QuarkXPress Server, that project draws its settings from the QuarkXPress Server preferences just as a new QuarkXPress project draws its settings from the QuarkXPress preferences.

Preferences files are stored in the following locations:

- Mac OS: [User]/Library/Preferences/Quark
- Windows: C:\Documents and Settings\[username]\Application Data\Quark\QuarkXPress Server 7.0\Preferences

For more information about preferences, see “Server preferences” in Chapter 2, “The QuarkXPress Server user interface.”

QUARK LICENSE ADMINISTRATOR
To prevent unauthorized use, QuarkXPress Server requires the presence of a Quark® License Administrator (QLA) server to launch. QuarkXPress Server follows the configuration and control rules that are enforced by QLA. For more information about QLA, see the QLA documentation included with QuarkXPress Server.

MASTER-SUBRENDERER ENVIRONMENT
Requests for project renders are stored in a connection queue. The requests in the rendering queue can be processed by a single QuarkXPress Server application, or by a master QuarkXPress Server application and several subrenderers (additional instances of QuarkXPress Server). The master QuarkXPress Server application launches the available number of subrenderers and then passes the requests in the connection queue to those subrenderers as they become available. The number of subrenderers available for launch is determined by the number of licenses available from the QLA server.
The master QuarkXPress Server application and all of the subrenderers it launches share the following elements:

- The same application preferences files on disk
- The same document cache in memory
- The same memory cache
- The same server XTensions modules
- The same server document pool (if defined in the QuarkXPress Server preferences or if a document provider is used in place of the document pool)

If a subrenderer unexpectedly quits, the master QuarkXPress Server restarts the subrenderer without requiring any action from you.

The master-subrenderer environment can be initiated from the command line or by any means that can issue a command-line command (such as scripts and shortcuts).

**THE KEEPALIVE SCRIPT**

A script called the *keepalive script* can monitor a QuarkXPress Server application and restart the application if it fails. To use this feature, launch QuarkXPress Server by running the “keepalive.sh” script (Mac OS) or “keepalive.bat” (Windows) script. Note that the keepalive script works only if you run it before you launch QuarkXPress Server. You can also manually restart QuarkXPress Server using this script.

On both platforms, information about unexpected shutdowns (including the error date, time, code, and description) is stored in an error log file. For more information about logging, see “Logging (tab)” in Chapter 2, “The QuarkXPress Server user interface.”

**UNDERSTANDING QUARKXPRESS SERVER XTENSIONS SOFTWARE**

QuarkXPress Server ships with a collection of XTensions software that adds capabilities to QuarkXPress Server. For example, PDF Export XTensions software lets QuarkXPress Server serve content in PDF format, Deconstructor XTensions software lets you retrieve XML representations of projects, and Modifier XTensions software lets you manipulate text, pictures, and boxes (among other things). Telegraph XTensions software works with QuarkXPress to allow designers to name boxes in template files so that those boxes can be addressed by URLs and to control caching for individual items.

For more information about XTensions software included with QuarkXPress Server, see Chapter 4, “XTensions software,” and Chapter 5, “Telegraph XTensions software.”
THE QUARKXPRESS SERVER XTENSIONS APPLICATION PROGRAMMING INTERFACE (API)

In addition to the XTensions modules included with QuarkXPress Server, developers can create custom XTensions software that add features. The complete server XTensions Application Programming Interface (API) documentation is available in the QuarkXPress Server XTensions Developer’s Kit (XDK).

The QuarkXPress Server XDK lets you create XTensions modules that provide the following abilities:

• The ability to register request handlers
• The ability to register project providers
• The ability to register new render formats
• The ability to add items to the list of response properties, cookies, and HTTP header items
• The ability to log messages in log files and in the status monitor
• The ability to initiate a new transaction to be processed by the server
• The ability to completely control how projects are processed by the server

In addition, QuarkXPress Server XTensions software can register for the following basic callbacks:

• Pre-processing
• Content loading
• Layout modification
• Post-processing
• Removing slugs while running the QuarkXPress project renderer
• Analyzing the server after a transaction is complete
• Pre- and post-transaction callback

LAUNCHING QUARKXPRESS SERVER

QuarkXPress Server consists of a single executable that can be executed in two modes. Both modes are available on Mac OS and Windows.

When executed in console mode, QuarkXPress Server displays a limited user interface for configuring the server. To access QuarkXPress Server in console mode, double-click the program icon.
When executed in no-UI mode, QuarkXPress Server displays no visible user interface and must be controlled (started and stopped) from a command prompt. Running QuarkXPress Server in no-UI mode will slightly improve its performance. To access QuarkXPress Server in no-UI mode, launch the application from the command line. For example:

- To launch QuarkXPress Server in no-UI mode on Mac OS, Control+click the QuarkXPress Server application file and choose Show Package Contents. Drag the “QuarkXPress Server.exe” file from the Contents → MacOS folder to an open X11 terminal window, add “–noui” to the end of the command, and press Enter.
- To launch QuarkXPress Server in no-UI mode from the command line on Windows, use a command such as: C:\Program Files\Quark\QuarkXPress Server 7\QuarkXPress Server\QuarkXPress Server.exe -noui.

COMMAND LINE OPTIONS
QuarkXPress Server supports the following command-line options:

- The **noui** option makes the server run without any user interface. This is the normal mode for production use of QuarkXPress Server.
- The **-nonetwork** parameter makes the server run without loading any network interfaces; in this mode, the only transactions a server can run are those passed to it by another process.
- The **-tm** parameter makes the transaction layer of the server mask exceptions into transaction errors.
- The **-tt** parameter makes the transaction layer of the server throw exceptions to the server layer.

EXIT CODES
When the server shuts down, QuarkXPress Server returns exit codes. The “keepalive.sh” file (Mac OS) or “keepalive.bat” file (Windows) uses these codes to check the type of QuarkXPress Server shutdown. If the exit code indicates that QuarkXPress Server shut down unexpectedly, the “keepalive” utilities automatically relaunch QuarkXPress Server.

Valid exit codes are as follows:

- QUARK DYNAMIC DOCUMENT SERVER_EXIT_NORMAL (0): The server exited normally.
- QUARK DYNAMIC DOCUMENT SERVER_EXIT_EXCEPTION (6969): The server exited as a result of an exception that was handled by the server layer.
- QUARK DYNAMIC DOCUMENT SERVER_EXIT_STARTUP (6970): The server exited as a result of a startup problem. In this case, restarting does not solve the problem; you must relaunch QLA.
- QUARK DYNAMIC DOCUMENT SERVER_EXIT_RESTART (6971): The server exited as a result of a remotely requested restart.
- QUARK DYNAMIC DOCUMENT SERVER_EXIT_SHUTDOWN (6972): The server exited as a result of a remotely requested shutdown.
Chapter 2: The QuarkXPress Server user interface

This chapter describes the QuarkXPress Server user interface and explains how you can use it to configure and customize your QuarkXPress Server application and manage your server XTensions modules. Menu items are covered in the same order they display in the user interface, from left to right and top to bottom.

When you open a dialog box in the QuarkXPress Server user interface, the HTTP server pauses to prevent conflicts with any jobs that are being processed. When you close the dialog box, the HTTP server starts again.

SERVER CONFIGURATION DIALOG BOX

The Server Configuration dialog box (QuarkXPress Server/Server menu) lets you specify the document pool location and control cache memory sizes, log options, HTTP settings, and other options related to the functioning of QuarkXPress Server.

SERVER (TAB)

Server Configuration dialog box

The Server tab in the Server Configuration dialog box lets you control memory and timing settings. You can also define the location of the document pool and designate default documents for display.
Server tab of Server Configuration dialog box

ALLOW MEMORY CACHING (CHECK BOX)
Server Configuration dialog box → Server tab
Check Allow Memory Caching to store disk-based documents in a memory-resident cache. Documents from external document providers also use this cache. Allow Memory Caching is checked by default.

MAX MEMORY CACHE SIZE (FIELD)
Server Configuration dialog box → Server tab
In the Max Memory Cache Size field, enter the maximum memory size allocated to the cache memory. The default value is 100MB. The acceptable range of values is from 10MB to 1024MB.

All subrenderers in a master-subrenderer environment share the same memory cache.

CONTENT LOADING TIMEOUT (FIELD)
Server Configuration dialog box → Server tab
In the Content Loading Timeout field, enter the amount of time (in seconds) the server should wait for a server XTensions module (or another document provider) to load content asynchronously before timing out the transaction. The default value is 120 seconds. Valid values are from 1 second to 3600 seconds.

DEFAULT RENDER (AREA)
Server Configuration dialog box → Server tab
Use the Default Render area to specify the format in which QuarkXPress Server renders QuarkXPress projects if the client does not specify a format. You can change the render type using URL parameters in the HTTP request.
**TYPE (DROP-DOWN MENU)**

*Server Configuration dialog box ➔ Server tab*

To indicate the default rendering format for the server, choose an option from the **Default Rendering Type** drop-down menu:

- **EPS Document**: Returns an Encapsulated PostScript (EPS) file
- **JPEG**: Returns a JPEG file
- **PDF**: Returns a PDF file
- **PNG**: Returns a Portable Network Graphics (PNG) file
- **PostScript**: Returns a PostScript file
- **QuarkXPress Document**: Returns a QuarkXPress project
- **Raw Custom**: Returns a file in internal QuarkXPress format for use by server XTensions software developers
- **RLE Raw Custom**: Returns a file in internal QuarkXPress format (compressed using Run Length Encoding) for use by server XTensions software developers

If a copy of QuarkXPress Server running on Mac OS renders a project that was created in Mac OS and returns the project in QuarkXPress format, the resulting project has no resource fork. (A resource fork is a hidden file that contains information about the application that created a file.) You cannot preview a project that does not have a resource fork, but such projects function normally in all other respects.

You can set up helper applications on local systems to display files in formats such as PostScript on the screen, but this feature is not built into QuarkXPress Server.

**SCALE (FIELD)**

*Server Configuration dialog box ➔ Server tab*

In the **Scale** field, enter the default scale at which QuarkXPress Server should render projects.

*Scale is not available for PDF, PostScript, Personalized Print Markup Language (PPML), and QuarkXPress project rendering formats.*

**DISABLE QUARKXPRESS DOCUMENT RETURN (CHECK BOX)**

*Server Configuration dialog box ➔ Server tab*

Check **Disable QuarkXPress Document Return** to prevent QuarkXPress Server from returning QuarkXPress projects to clients.

**DOCUMENT POOL (AREA)**

*Server Configuration dialog box ➔ Server tab*

Use the **Document Pool** area to control location and configuration of the document pool.
ENABLE FILE SYSTEM DOCUMENT POOL (CHECK BOX)

Server Configuration dialog box → Server tab
Check Enable File System Document Pool to enable the Document Root field and the Browse button. This box is checked by default.

To specify the document pool directory, click Browse or enter a path in the Document Root field.

The document pool directory can be on the same computer as the QuarkXPress Server application or on a file server that is accessible on a Local Area Network (LAN) or a Wide Area Network (WAN), as long as the drive containing the pool can be mounted.

You cannot specify the QuarkXPress Server application folder as the document pool directory.

ALLOW REMOTE CHANGES (CHECK BOX)

Server Configuration dialog box → Server tab
Check Allow Remote Changes to allow other applications to upload items to or delete items from the document pool. You can upload or delete QuarkXPress projects and their associated files. This box is checked by default.

FORCE SERVED DOCUMENTS CLOSED (CHECK BOX)

Server Configuration dialog box → Server tab
Check Force Served Documents Closed to make QuarkXPress Server close projects from the document pool after it renders them, regardless of the Telegraph XTensions software setting. Uncheck Force Served Documents Closed to keep such projects open on the server. This box is checked by default.

The ability of project to remain open is determined by whether Allow Document to Stay Open is checked in the QuarkXPress Server pane of the QuarkXPress Preferences dialog box when Telegraph XTensions software uploads the file. (For more information, see Chapter 5, “Telegraph XTensions software.”) If a project is not set to remain open by the Telegraph XTensions software, unchecking Force Served Documents Closed does not cause the project to remain open.

Setting a project to remain open does not guarantee that the project will be left open. This is because server memory and load requirements are also involved. For example, if the server requires memory to open additional projects, it might close a project that has been left open. The maximum number of open projects is 32. This feature enhances performance, and the cache can be cleared at any moment.
GENERATE HIERARCHY ON DOCUMENT UPLOAD (CHECK BOX)

Server Configuration dialog box → Server tab
Check Generate Hierarchy on Document Upload to make QuarkXPress Server automatically generate any file hierarchy that is requested when a user uploads content to the document pool from Telegraph XTensions software. For more information, see Chapter 5, “Telegraph XTensions software.” This box is checked by default.

DOCUMENTS (AREA)

Server Configuration dialog box → Server tab
Use the Documents area of the Server tab to specify which HTML files should display by default when a client accesses QuarkXPress Server, when errors occur, and when access is denied to a client.

DEFAULT DOCUMENT (FIELD)

Server Configuration dialog box → Server tab
To specify which HTML file should display by default when a client accesses QuarkXPress Server, enter the file’s path in the Default Document field or click Browse and navigate to the file. This file must be an HTML file.

ERROR DOCUMENT (FIELD)

Server Configuration dialog box → Server tab
To specify which HTML file should display by default when QuarkXPress Server cannot process a request, enter the file’s path in the Error Document field or click Browse and navigate to the file. This file must be an HTML file.

Your error document can contain whatever information you like. QuarkXPress Server also supports the following special tags:

• If you include an <!--ERRORNUMBER--> comment in the file, QuarkXPress Server replaces that comment with a number that identifies the particular error that occurred.

• If you include an <!--ERRORSTRING--> comment in the file, QuarkXPress Server replaces that comment with details about the particular error that occurred.

NO ACCESS DOCUMENT (FIELD)

Server Configuration dialog box → Server tab
To specify which HTML file should display by default when a client is denied access to a server function or project, enter the file path in the No Access Document field or click Browse and navigate to the file. This file can contain whatever information you like, but it must be an HTML file.
LOGGING (TAB)

Server Configuration dialog box

Click the Logging tab in the Server Configuration dialog box to control how errors and transactions are logged.

Logging tab of Server Configuration dialog box

The log folder contains two log files: The transaction log and the error log. You can configure the system to save the log folder to your computer or to a file server that is accessible over a LAN or a WAN, as long as the drive containing the folder can be mounted.

LOGGING ENABLED (CHECK BOX)

Server Configuration dialog box → Logging tab

Check Logging Enabled to enable the Log Folder field and then enter the path to the folder or click Browse and navigate to the folder.

You cannot specify the QuarkXPress Server application folder as the document pool directory.

LOG ERRORS (CHECK BOX)

Server Configuration dialog box → Logging tab

Check Log Errors to set the system to record unsuccessful transactions in the log file.

LOG TRANSACTIONS (CHECK BOX)

Server Configuration dialog box → Logging tab

Check Log Transactions to enter every non-error response returned from transactions on QuarkXPress Server into the transaction log.

LOG DETAILED TIMING DATA (CHECK BOX)

Server Configuration dialog box → Logging tab

Depending on the render type, certain transactions must include transaction timing data. Check Log Detailed Timing Data to include the following transaction timing data (measured in milliseconds) in the transaction log for each transaction:

- Connection acceptance and closure time: The duration between the network connection opening and closing time.
• **HTTP request and body parsed time:** The total time duration in which the following operations are performed: The client connects to the server and sends a request, timing starts, a request is parsed, QuarkXPress Server processes the request, and timing stops.

• **QuarkXPress Server request processing time:** Same as *Connection acceptance and closure time*, but timing starts after request parsing is complete.

• **Opening QuarkXPress document time:** The time required to open a QuarkXPress project for rendering.

• **Instantiate document time:** The time required to carry out the dynamic publishing process.

• **Total of rendering process time:** The total amount of time spent rendering a project.

• **Time required to generate an image of the QuarkXPress document:** The time required for the generation of files that use JPEG, PNG, or any other compressed format.

• **Closing QuarkXPress document time:** The time required to close a QuarkXPress project.

• **Data ready and all sent to client:** The difference between the time when all data for the page return has been processed and is ready to be sent and the time when the last bit of data is sent to the client.

Server XTensions software can be configured to add module-specific timing entries to the transaction log.

**LOG SERVER EVENTS (CHECK BOX)**
Server Configuration dialog box → Logging tab
Check Log Server Events to record QuarkXPress Server events that are not related to error conditions in the transaction log. Server events include the following:

• **Server Started:** The date and time at which the server was started.

• **Server Stopped:** The date and time at which the server was stopped.

• **Errors Starting Up:** The server records errors, such as issues loading XTensions software, in the error log. In no-UI mode, errors that cause an alert to display in the console mode are recorded in the error log.

• **Exceptions Caught (Windows only):** Any exceptions logged by the server.

• **Application exception-type errors:** An “exception masked” notice and a code. You can use this information for troubleshooting.
LOG DOCUMENT PROBLEMS (CHECK BOX)
Server Configuration dialog box → Logging tab
Check Log Document Problems to include problem descriptions in transaction log files. Logged problems include the following:

- **Missing Fonts:** If fonts are missing from a project that has been requested for rendering, a one-line description of each missing font is added to the error log. If QuarkXPress Server receives a request to render a project and does not have access to the fonts required by the project, it substitutes Helvetica (Mac OS) or Arial (Windows). This behavior is the same as in QuarkXPress.

- **Missing SXTs:** If a required server XTensions module is missing when a rendering request is received, a one-line description of each missing module is added to the error log. If the name of the missing module is not returnable, the XTensions module ID number is returned.

- **Text Encoding/Character Set Problems:** If text is sent to a text box in the template and the system does not have access to the correct font glyph, the issue is logged. The log data indicates the character set that the system attempted to convert. For example, the log entry might show that a request for Japanese characters was sent to an English project.

LOG NON-CONFORMANT SXT DIALOG MESSAGES (CHECK BOX)
Server Configuration dialog box → Logging tab
Check Log Non-conformant SXT Dialog Messages to prevent server XTensions modules from displaying dialog boxes.

HTTP (TAB)
Server Configuration dialog box
Click the HTTP tab in the Server Configuration dialog box to control port and connection settings.
**ENABLE HTTP INTERFACE (CHECK BOX)**
Server Configuration dialog box → HTTP tab
Check **Enable HTTP Interface** to activate the HTTP 1.0 server that is built in to QuarkXPress Server and enable the other controls in this area.

**PORT NUMBER (FIELD)**
Server Configuration dialog box → HTTP tab
In the **Port Number** field, enter the port number of the HTTP server. The acceptable range of values is from 1024 to 65,535 (Mac OS) or from 1 to 65,535 (Windows). When the HTTP server is initialized, an alert displays if this value falls outside this range or if the specified port number is already in use. If QuarkXPress Server is running in no-UI mode, an entry regarding this alert is made in the log file. The default value for this field is 8080.

**MAX CONNECTIONS (FIELD)**
Server Configuration dialog box → HTTP tab
In the **Max Connections** field, enter the maximum number of rendering requests to be recognized and processed by the QuarkXPress Server connection queue. The acceptable range of values is from 1 to 16. The default value for this field is 16.

**MAX LISTENS (FIELD)**
Server Configuration dialog box → HTTP tab
In the **Max Listens** field, enter the maximum number of requests to be queued up for processing while waiting for an open connection. An alert displays if this value exceeds the maximum number of listens. The acceptable range of values is from 1 to 32. The default value for this field is 20.

**DEFAULT BUFFER SIZE (FIELD)**
Server Configuration dialog box → HTTP tab
In the **Default Buffer Size** field, enter the total size (in kilobytes) of the HTTP buffer. The HTTP buffer is the size of the data block that is sent to the client from the server as part of the HTTP response. The smaller the block size, the less memory consumed by the application. Large blocks facilitate faster performance, but might cause memory shortages in other parts of the application. The acceptable range of values is from 16KB to 256KB. The default value for this field is 32KB.

**CONNECTION TIMEOUT (FIELD)**
Server Configuration dialog box → HTTP tab
In the **Connection Timeout** field, enter the total time in seconds before an HTTP connection should time out. The client must send a request within this period. The acceptable range of values is from 1 second to 32,767 seconds. The default value for this field is 120 seconds.
REALM VERIF. FOR ADMIN. REQUESTS (CHECK BOX)

Server Configuration dialog box → HTTP tab

Check Realm Verif. for Admin. Requests to enable the User Name, Password, and Confirm fields. These fields let you control access to administrative parameters and features. You must enter valid values that contain at least four characters in the User Name, Password, and Confirm fields, and you can enter up to 32 characters. This box is unchecked by default.

USE CONNECTION FILTERS (CHECK BOX AND AREA)

Server Configuration dialog box → HTTP tab

Use this check box to grant or deny QuarkXPress Server access to IP addresses.

Check Use Connection Filters to enable controls that let you enter and modify IP addresses and subnet masks in the connection filters list. This box is unchecked by default.

Click Insert to display the Insert Connection Filter dialog box, in which you can enter an IP address between 1 and 254 and a subnet mask between 0 and 255.

Click Modify to display the Modify Connection Filter dialog box, in which you can specify an action for a particular IP address, edit an IP address, and edit a subnet mask. Each field in the Modify Connection Filter dialog box accepts a value between 0 and 255. The default setting is Deny Connection.

Click Remove to delete the selected IP address from the connection filters list.

Click or to move the selected IP address up or down in the connection filters list.

If no rules have been applied to an IP address, you can select the IP address and click Allow Connections to allow the IP address to be used or click Deny Connections to prevent the IP address from being used. The “allow” and “deny” actions are performed on IP addresses in the order they display in the connection filters list.

The maximum number of allowed IP addresses/subnet masks is 128.

EMAIL (TAB)

Server Configuration dialog box

Click the Email tab in the Server Configuration dialog box to display controls that let you set up automatic e-mail messages to warn of license expiration.
SMTP SERVER (CHECK BOX)
Server Configuration dialog box → Email tab
Check SMTP Configuration to enable QuarkXPress Server to send an e-mail to an administrator when the application’s QLA license expires. Checking this box enables the other controls in this area. This box is unchecked by default.

SMTP SERVER (FIELD)
Server Configuration dialog box → Email tab
In the SMTP Server field, enter the domain name or IP address of the e-mail server that QuarkXPress Server should use to send messages (for example, mail.quark.com).

SMTP SERVER PORT (FIELD)
Server Configuration dialog box → Email tab
In the SMTP Server Port field, enter the port number of the e-mail server that QuarkXPress Server should use to send messages. The acceptable range of values is from 0 to 255. The default value for this field is 25.

FROM (E-MAIL ADDRESS) (FIELD)
Server Configuration dialog box → Email tab
In the From (Email Address) field, enter the source e-mail address the QuarkXPress Server application should use to send messages (for example, QXPServer1@quark.com).

TO (E-MAIL ADDRESS) (FIELD)
Server Configuration dialog box → Email tab
In the To (Email Address) field, enter the e-mail address to which the QuarkXPress Server application should send messages (for example, QXPServerAdmin@quark.com).
SERVER PREFERENCES

Use the Preferences dialog box (QuarkXPress Server → Preferences) to set up default preferences for use when projects are created in QuarkXPress Server.

Many of these preferences come into play only when you create a project in QuarkXPress Server. You cannot directly create projects in the QuarkXPress Server user interface, but XTensions software can create projects.

APPLICATION PREFERENCES (CATEGORY)

Changes to preferences in the Application category affect all projects. For example, when you create a project using a server XTensions module or other external software, preference settings in the Application category are applied to the new project. Application preferences include the following panes:

- The Display pane
- The Input Settings pane
- The XTensions Manager pane
- The Font Mapping pane
- The Deconstruct pane (displays only if Deconstructor XTensions software is loaded)
- The EPS pane
- The Full Res Preview pane
- The Job Jackets™ pane
- The Modifier pane (displays only if Modifier XTensions software is loaded)
- The PDF pane (displays only if PDF Filter XTensions software is loaded)
- The Placeholders pane
- The PSD Import pane
- The Fraction/Price pane
- The Picture Effects pane (displays only if QuarkVista™ XTensions software is loaded)

DISPLAY (PANE)

Use the Display pane to specify how TIFF files display on screen for all projects.
From the **Color TIFFs** drop-down menu, choose the color depth of TIFF pictures in rendered images using QuarkXPress Server. The default value is **32-bit** on Mac OS and **24-bit** on Windows.

- Choose **8-bit** to create screen previews with 256 possible colors.
- Choose **16-bit** (Mac OS only) to create screen previews with thousands of possible colors.
- Choose **24-bit** (Windows only) to create screen previews with millions of possible colors.
- Choose **32-bit** (Mac OS only) to create screen previews with millions of possible colors, which lets you print 32-bit color TIFFs in PICT format to a QuickDraw® printer.

The **Color TIFFs** settings are applied only to TIFF files that are uploaded to the document pool; if a user prints a project that contains TIFF files that have not been uploaded to the document pool, the TIFF files print only at 8 bits. This setting affects only printed projects.
GRAY TIFFS (DROP-DOWN MENU)

QuarkXPress Server → Preferences → Display pane

From the Gray TIFFs drop-down menu, choose the resolution for TIFF pictures in rendered images using QuarkXPress Server. The default is 256 levels.

- Choose **16 levels** to create screen previews with 16 levels of gray for fast screen redraw.
- Choose **256 levels** to create screen previews with 256 levels of gray from pictures scanned at this level.

The Gray TIFFs settings are applied only to TIFF files that are uploaded to the document pool; if a user prints a project that contains TIFF files that have not been uploaded to the document pool, the TIFF files print only at 8 bits. This setting affects only printed projects.

MONITOR PROFILE (DROP-DOWN MENU)

QuarkXPress Server → Preferences → Display pane

From the Color TIFFs drop-down menu, choose a profile that corresponds to your monitor. Profiles can be placed in the default system profile folder or in the “Profiles” folder in the QuarkXPress Server application folder.

INPUT SETTINGS (PANE)

QuarkXPress Server → Preferences

Use the Input Settings pane to customize the display of quotation marks and the selection of characters used to specify page ranges.

![Preferences dialog box displaying Input Settings pane](image_url)
QUOTES (AREA)
QuarkXPress Server → Preferences → Input Settings pane
Use the Quotes area to choose a style for converting and entering quotation marks. The preferences set in the Quotes area of QuarkXPress Server override the preferences set for a project.

Use the Format drop-down menu to specify the default characters to be used with the Smart Quotes feature and Convert Quotes option in the Get Text dialog box (File → Get Text). The default option is “”.

Check Smart Quotes to force QuarkXPress to replace feet (‘) and inches (“) marks automatically with the specified quotation marks. This box is checked by default.

PAGE RANGE SEPARATORS (AREA)
QuarkXPress Server → Preferences → Input Settings pane
Hyphens and commas are the default separators for indicating sequential and nonsequential ranges in the Pages field of the Print dialog box for a print project. In the Sequential and Nonsequential fields, enter new characters to be used as separators when the project is rendered by QuarkXPress Server. The preferences set in the Page Range Separators area of QuarkXPress Server override the preferences set for a project.

FONT FALLBACK (CHECK BOX)
QuarkXPress Server → Preferences → Interactive pane
Check Font Fallback to make QuarkXPress Server try to provide an acceptable representation of characters if the font required by those characters is not available. This box is checked by default.

XTENSIONS MANAGER (PANE)
QuarkXPress Server → Preferences
Use the XTensions Manager pane to customize the built-in XTensions Manager.

Preferences dialog box displaying the XTensions Manager pane
**SHOW XTENSIONS MANAGER AT STARTUP (AREA)**

*QuarkXPress Server ➔ Preferences ➔ XTensions Manager pane*

Use the **Show XTensions Manager at Startup** area to specify whether the **XTensions Manager** dialog box displays when you launch QuarkXPress Server, and under what circumstances. (XTensions software are add-on software modules that customize the feature set of QuarkXPress Server. You can use the **XTensions Manager** utility to enable or disable individual XTensions software or sets of XTensions software directly from QuarkXPress Server.)

- Click **Always** to display the **XTensions Manager** dialog box when you launch QuarkXPress Server.
- Click **When** and check **XTension folder changes** to display the **XTensions Manager** dialog box during launch only after XTensions software has been added to or removed from the “XTension” folder.
- Click **When** and check **Error occurs while loading XTensions** to display the **XTensions Manager** dialog box during launch only when QuarkXPress Server encounters an issue loading XTensions software.

If the **XTensions Manager** dialog box displays as a result of the **When ➔ Error occurs while loading XTensions** setting, the server stops (as it does when any dialog box displays). This can be a problem during an automatic restart, because it will prevent the server from completely restarting.

**FONT MAPPING (PANE)**

*QuarkXPress Server ➔ Font Mapping*

Use the **Font Mapping** pane to specify a substitute font for any font that is not available for rendered images on QuarkXPress Server.

**Specify Default Replacement Font (Check Box)**

*QuarkXPress Server ➔ Preferences ➔ Font Mapping*

To specify which font should be used if a font required by a rendered project is not available, check **Specify Default Replacement Font** and then choose a font from the **Default Replacement Font** drop-down menu. If you leave this box unchecked, Courier is substituted for missing fonts.
DECONSTRUCT (PANE)

*QuarkXPress Server ➔ Deconstruct*

Use the **Deconstruct** pane to set preferences to control which elements are included in the XML representations of projects when you use the `deconstruct` namespace.

![Preferences dialog box displaying Deconstruct pane]

The **Deconstruct** pane displays only if Deconstructor XTensions software is loaded. For more information, see “Deconstructor XTensions software” in Chapter 4, “XTensions software.”

DECONSTRUCT (AREA)

*QuarkXPress Server ➔ Preferences ➔ Deconstruct pane*

In the **Deconstruct** area, you can select whether XML generated by Deconstructor XTensions software includes all boxes or only named boxes. The default option is **Named Boxes**.

DECONSTRUCTED ELEMENTS (AREA)

*QuarkXPress Server ➔ Preferences ➔ Deconstruct pane*

Use the **Deconstructed Elements** area to control which elements are included in the XML representation of a project.

PICTURE BOXES (CHECK BOX)

*QuarkXPress Server ➔ Preferences ➔ Deconstruct pane*

Check **Picture Boxes** to include XML descriptions of picture boxes.
CONTENT (CHECK BOX)
QuarkXPress Server → Preferences → Deconstruct pane
Check Content to include XML descriptions of content in picture boxes.

TEXT BOXES (CHECK BOX)
QuarkXPress Server → Preferences → Deconstruct pane
Check Text Boxes to include XML descriptions of text boxes.

CONTENT (CHECK BOX)
QuarkXPress Server → Preferences → Deconstruct pane
Check Content to include XML descriptions of content in text boxes.
  • Click With Attributes to include XML descriptions of content in text boxes.
  • Click With Style Sheets to include XML descriptions of style sheets applied to content in text boxes.

GROUP BOXES (CHECK BOX)
QuarkXPress Server → Preferences → Deconstruct pane
Check Grouped Boxes to include XML descriptions of grouped boxes and enable subsequent deconstruct attributes.

ITEM WITHIN A GROUP (CHECK BOX)
QuarkXPress Server → Preferences → Deconstruct pane
Check Items within a Group to include XML descriptions of items in groups.

PICTURE CONTENT (CHECK BOX)
QuarkXPress Server → Preferences → Deconstruct pane
Check Picture Content to include XML descriptions of content in picture boxes.

TEXT CONTENT (CHECK BOX)
QuarkXPress Server → Preferences → Deconstruct pane
Check Text Content to include XML descriptions of content in text boxes.
  • Click With Attributes to include XML descriptions of the attributes of content in text boxes.
  • Click With Style Sheets to include XML descriptions of the style sheets applied to content in text boxes.

EPS (PANE)
QuarkXPress Server → Preferences
Use the EPS pane to specify options related to imported EPS pictures.
**PREVIEW (DROP-DOWN MENU)**
*QuarkXPress Server → Preferences → EPS pane*

Use the **Preview** drop-down menu to control whether QuarkXPress Server should generate a preview of an EPS file or use the preview (if any) embedded in the file.

**VIRTUAL MEMORY (FIELD) - MAC OS ONLY**
*QuarkXPress Server → Preferences → EPS pane*

To increase the amount of virtual memory available for rendering large EPS files, increase the value in this field.

**FULL RES PREVIEW (PANE)**
*QuarkXPress Server → Preferences*

Use the **Full Res Preview** pane to set preferences to display full-resolution images of rendered projects.

![Preferences dialog box displaying Full Res Preview pane](image)

**PREVIEW CACHE LOCATION (AREA)**
*QuarkXPress Server → Preferences → Full Res Preview pane*

Use the **Preview Cache Location** area to set a location for a cache folder that lists the various instances of an image with different resolutions.

- Click **QuarkXPress Server Preferences Folder** to set the QuarkXPress Server preferences folder as the cache folder.
- Click **Other Folder** and then click **Select/Browse** to use another folder as the cache folder.
**MAXIMUM CACHE FOLDER SIZE (FIELD)**

*QuarkXPress Server ➔ Preferences ➔ Full Res Preview pane*

Enter the maximum size of the cache folder in megabytes (MB) in the Maximum Cache Folder Size field.

**DISPLAY FULL-RESOLUTION PREVIEWS FOR (AREA)**

*QuarkXPress Server ➔ Preferences ➔ Full Res Preview pane*

Use the Display Full Resolution Previews for area to set preferences to display images with full resolution.

- Click All Full Resolution Previews to display all images in full-resolution mode.
- Click Selected Full Resolution Previews to display only selected images in full-resolution mode.

**DISABLE FULL RESOLUTION PREVIEWS ON OPEN (CHECK BOX)**

*QuarkXPress Server ➔ Preferences ➔ Full Res Preview pane*

Check Disable Full Resolution Previews on Open to disable full-resolution mode of images when a project opens.

**JOB JACKETS (PANE)**

*QuarkXPress Server ➔ Preferences ➔ Job Jackets*

Use the Job Jackets pane to specify preferences for automatic layout evaluation and to indicate a default location for Job Jackets files.

![Preferences dialog box displaying Job Jackets pane](image)
LAYOUT EVALUATION (AREA)
QuarkXPress Server → Preferences → Job Jackets pane
Use the options in the Layout Evaluation area to control when QuarkXPress Server automatically executes the File → Job Jacket → Evaluate Layout command. For example, by checking On Output, you can make sure that you always evaluate a layout before the layout is rendered. This area includes the following options:

- On Open
- On Save
- On Close
- On Output

JOB JACKET LOCATION (AREA)
QuarkXPress Server → Preferences → Job Jackets pane
Use the options in the Job Jacket Location area to specify where Job Jackets files are stored by default.

- To save Job Jackets files in the default location, click Use Default Folder for Shared Job Jackets. The default location is the “Documents” folder on Mac OS and the “My Documents” folder on Windows.
- To change the location where Job Jackets are stored by default, click Other Folder, click Select/Browse, and navigate to the target folder.

MODIFIER (PANE)
QuarkXPress Server → Preferences → Modifier pane
Use the Modifier pane to set preferences pertaining to the way Modifier XTensions software updates text in projects.

The Modifier pane displays only if Modifier XTensions software is loaded. For more information, see “Modifier XTensions software” in Chapter 4, “XTensions software.”
**AMOUNT BY WHICH TEXT WILL INCREASE/DECREASE (FIELD)**

QuarkXPress Server → Preferences → Modifier pane

In the **Amount by which Text will Increase/Decrease** field, enter the percentage by which Modifier XTensions software can increase or decrease text size when the parameter `<FITTEXTTOBOX>` is used. Valid values for this field are from 0% to 20%. For example, if the font size in use is 10pt, and you enter 20% in this field, the font size can vary from 8pt to 12pt when `<FITTEXTTOBOX>` is used.

**FONT SIZE (AREA)**

QuarkXPress Server → Preferences → Modifier pane

In the **Font Size Min** and **Max** fields, enter the minimum and maximum font size that the Modifier parameter `<SIZE>` can apply to text in a text box. The default values are “2pt” (Min) and “720pt” (Max).

The value of the `<SIZE>` parameter does not override the value in the **Amount by which the Text will Increase/Decrease** field.

**ALLOW TEXT TO GROW (CHECK BOX)**

QuarkXPress Server → Preferences → Modifier pane

Check **Allow Text to Grow** to allow the Modifier parameter `<FITTEXTTOBOX>` to increase the font size of text in a text box.

**ADJUST OTHER FONT ATTRIBUTES (CHECK BOX)**

QuarkXPress Server → Preferences → Modifier pane

Check **Adjust Other Font Attributes** to enable the font attributes in this area. You can then use the check the boxes to allow Modifier XTensions software to set **Horizontal Vertical Scale**, **Tracking Amount**, and **Baseline Shift** for text.

**PDF (PANE)**

QuarkXPress Server → Preferences → PDF

Use the **PDF** pane to set preferences for rendering in PDF format.
The PDF pane displays only if PDF Filter XTensions software is loaded. For more information, see “PDF Filter XTensions software” in Chapter 4, “XTensions software.”

**PDF WORKFLOW (AREA)**

*QuarkXPress Server ➔ Preferences ➔ PDF pane*

Use the PDF Workflow area to set a location for PDF files:

- Click **PDF Direct** to generate PDF output in the browser. This is the default option.
- Click **PDF to Folder** to generate and save PDF files to a folder. Click **Select/Browse** to specify a location for the folder in the **Watched Folder** field, and choose a default name for PDF files from the **Default Name** scroll list.
- Click **PostScript File for Later Distilling** to generate a PostScript file. Click **Select/Browse** to specify a location for the folder in the **Watched Folder** field, and choose a default name for PostScript files from the **Default Name** scroll list.
ERROR SETTINGS (AREA)
QuarkXPress Server → Preferences → PDF pane
Use the Error Settings area to specify whether and where PDF-generation and PostScript-generation errors are logged.

LOG ERRORS (CHECK BOX)
QuarkXPress Server → Preferences → PDF pane
Check Log Errors to log PDF-generation and PostScript-generation errors. Checking this box enables the Use Log Folder check box.

USE LOG FOLDER (CHECK BOX)
QuarkXPress Server → Preferences → PDF pane
To specify where errors should be logged, check Use Log Folder and then click Select/Browse and navigate to the target folder. If you do not check this box, log files are stored in the watched folder for PDF generation, as defined in the PDF pane.

In Mac OS, you can define the amount of memory your system allocates for rendering PDF files by entering a value in the Virtual Memory field.

PLACEHOLDERS (PANE)
QuarkXPress Server → Preferences
Use the Placeholders pane to customize text and text node placeholders. (Placeholders are used by XML Import XTensions software.)

TEXT PLACEHOLDER (AREA)
QuarkXPress Server → Preferences → Placeholders pane
Use the Color button in the Text Placeholder area to specify the color of the placeholders in the layout. Choose a shade percentage for the color from the Shade drop-down menu.

TEXTNODE PLACEHOLDER (AREA)
QuarkXPress Server → Preferences → Placeholders pane
Use the Color button in the TextNode Placeholder area to specify the color of text node placeholders in the layout. Choose a shade percentage for the color from the Shade drop-down menu.
PSD IMPORT (PANE)

QuarkXPress Server → Preferences

Use the PSD Import pane to control where previews of imported PSD files are cached and how large the cache is allowed to become.

Preferences dialog box displaying PSD Import pane

LOCATION (AREA)

QuarkXPress Server → Preferences → PSD Import pane

Use the controls in the Location area to specify the location of the folder where previews for imported PSD pictures are stored:

- To use the QuarkXPress Server Preferences folder, click QuarkXPress Preferences Folder.
- To use a different folder, click Other Folder, then click Select/Browse and navigate to the target folder.

MAXIMUM CACHE FOLDER SIZE (FIELD)

QuarkXPress Server → Preferences → PSD Import pane

To indicate the maximum allowable cache folder size, enter a value in this field. When this value is reached, QuarkXPress Server begins removing files from the cache.

CLEAR CACHE (FIELD)

QuarkXPress Server → Preferences → PSD Import pane

To clear the PSD Import preview cache, click Clear Cache.
FRACTION/PRICE (PANE)

*QuarkXPress Server ➔ Preferences ➔ Fraction.Price*

Use the *Fraction/Price* pane to set preferences for fractions in text.

Preferences dialog box displaying *Fraction/Price* pane

**NUMERATOR (AREA)**

*QuarkXPress Server ➔ Preferences ➔ Fraction/Price pane*

Use the *Numerator* area to set preferences for the numerator of fractions in text.

- In the *Offset* field, enter the offset percentage for the numerator.
- In the *VScale* field, enter the percentage of vertical scaling of the numerator.
- In the *HScale* field, enter the percentage of horizontal scaling of the numerator.
- In the *Kern* field, enter the kern value for the numerator.

**DENOMINATOR (AREA)**

*QuarkXPress Server ➔ Preferences ➔ Fraction/Price pane*

Use the *Denominator* area to set preferences for the denominators of fractions in text.

- In the *Offset* field, enter the offset percentage for the denominator.
- In the *VScale* field, enter the percentage of vertical scaling for the denominator.
- In the *HScale* field, enter the percentage of horizontal scaling for the denominator.
- In the *Kern* field, enter the kerning value for the numerator.
SLASH (AREA)
QuarkXPress Server → Preferences → Fraction/Price pane
Use the Slash area to set preferences for slashes in fractions.

• In the Offset field, enter the offset percentage for slashes.
• In the VScale field, enter the percentage of vertical scaling for slashes.
• In the HScale field, enter the percentage of horizontal scaling for slashes.
• Check Fraction Slash to maintain the type size in fractions.

PRICE (AREA)
QuarkXPress Server → Preferences → Fraction/Price pane
Use the Price area to set preferences for subscript and superior text.

• Check Underline Cents to underline the superior text.
• Check Delete Radix to suppress commas or periods in prices.

PICTURE EFFECTS (PANE)
QuarkXPress Server → Preferences → Picture Effects pane
Use the Picture Effects pane to set the location of existing picture effects to apply to the images. You can also set a cache location for image processing.

The Picture Effects pane displays only if QuarkVista XTensions software is loaded. For more information, see “QuarkVista XTensions software” in Chapter 4, “XTensions software.”
PICTURE EFFECT PRESETS LOCATION (AREA)
QuarkXPress Server → Preferences → Picture Effects pane
Use the Picture Effects Presets Location area to set the location to save picture presets.

Click QuarkXPress Server Preferences Folder to set the QuarkXPress Server “Preferences” folder as the location for using existing picture effects.

To use a different folder, click Other Folder, click Select/Browse, and navigate to the target folder.

PROJECT PREFERENCES (CATEGORY)
QuarkXPress Server → Preferences
Changes to preferences in the Project category affect all layouts in the active project. If you change project preferences with no projects open, the new preferences become the default settings for all new projects. Project preferences include the following panes:

- The General pane
- The XML Import pane (displays only if XML Import XTensions software is loaded)

GENERAL (PANE)
QuarkXPress Server → Preferences → General
Use the General pane to specify default settings for automatic picture import, single layout mode, and OpenType® kerning (for OpenType fonts).

AUTO PICTURE IMPORT (DROP-DOWN MENU)
QuarkXPress Server → Preferences → General pane
Use the Auto Picture Import area to control whether QuarkXPress Server automatically updates pictures that have been modified since a project was last opened. QuarkXPress Server can locate pictures for which there is a path between the picture file and the QuarkXPress layout.

- To enable the Auto Picture Import feature, choose On. When QuarkXPress Server opens a project, the application automatically reimports modified pictures into each layout using the modified files. All content specifications (scaling, positioning, and so on) are retained.
• To disable the Auto Picture Import feature, choose Off.

• To make QuarkXPress Server display an alert before importing modified pictures, choose Verify. The alert gives you the option of opening the project with or without updating the pictures. If you choose to update the pictures, QuarkXPress Server displays the Missing/Modified Pictures dialog box. You can use this dialog box to view the affected pictures in each layout and to selectively update the pictures.

If the Missing/Modified dialog box displays as a result of Verify being checked, the server stops (as it does whenever any dialog box displays). This can be a problem during an automatic restart, because it will prevent the server from completely restarting.

SINGLE LAYOUT MODE (CHECK BOX)
QuarkXPress Server → Preferences → General pane
Checking Single Layout Mode will cause new projects to be created in single-layout mode. Only the project name is used when saving PDF files or in AppleScript references.

USE OPENTYPE KERNING (CHECK BOX)
QuarkXPress Server → Preferences → General pane
Check Use OpenType Kerning to use OpenType kerning with OpenType fonts.

XML IMPORT (PANE)
QuarkXPress Server → Preferences → XML Import
The controls in the XML Import pane are not relevant to QuarkXPress Server and should be ignored.

DEFAULT PRINT LAYOUT (CATEGORY)
QuarkXPress Server → Preferences
The Default Print Layout category includes the following panes:

• The General pane
• The Measurements pane
• The Paragraph pane
• The Character pane
• The Tools pane
• The Trapping pane
• The Color Manager pane
• The Layers pane (displays only if QuarkXPress Server Layers XTensions software is loaded)
GENERAL (PANE)
QuarkXPress Server → Preferences
Use the General pane to specify various default settings for page layout.

Preferences dialog box displaying General pane

GUIDES (AREA)
QuarkXPress Server → Preferences → General pane
Use the Guides area to specify whether ruler guides and page guides are placed in front of or behind all items on a page.

- Click **In Front** to place ruler and page guides in front of all items on a page. This is the default option.
- Click **Behind** to place ruler and page guides behind all items on a page.

In the **Snap Distance** field, enter the distance at which objects snap to page guides. The default value is 6.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 216</td>
<td>point</td>
<td>1</td>
</tr>
</tbody>
</table>

HYPERLINKS (AREA)
QuarkXPress Server → Preferences → General pane
Use the Hyperlinks area to choose the color for anchor icons and hyperlinks. Anchor icon colors are available for Print and Web layouts, whereas hyperlink colors are available for Print layouts only. You might want to choose anchor and hyperlink colors for a Print layout if you are planning to render that layout as a PDF file.
MASTER PAGE ITEMS (AREA)
QuarkXPress Server → Preferences → General pane
A master page item is an item that is automatically placed on a layout page when you apply a master page. When you apply a new master page to a layout page, unmodified master items (placed by the original master page) on a layout page are deleted, but modified master items might not be.

- Click Keep Changes to keep modified master items on layout pages when a new master page is applied. The items that are kept are no longer master items. Keep Changes is the default option.
- Click Delete Changes to delete modified master items on layout pages when a new master page is applied.

FRAMING (AREA)
QuarkXPress Server → Preferences → General pane
Use the Framing area to specify whether frames are placed inside or outside text and picture boxes.

- Click Inside to place the frame inside the box. Inside is the default option.
- Click Outside to place the frame outside the box, increasing the box’s width and height. The frame cannot extend beyond a constraining box or the pasteboard.

AUTO PAGE INSERTION (DROP-DOWN MENU)
QuarkXPress Server → Preferences → General pane
From the Auto Page Insertion drop-down menu, determine whether pages are inserted automatically to contain text overflow from an automatic text box or a chain of text boxes (on a page associated with a master page that contains an automatic text box). You can also use the Auto Page Insertion drop-down menu to determine where pages must be inserted.

- Choose Off to disable Auto Page Insertion.
- Choose End of Story to place new pages immediately after the page containing the last overflowing text box in the chain. Inserted pages use the master page of the page containing the overflow. It is the default option.
- Choose End of Section to place new pages at the end of the section in which the overflow occurs. Inserted pages use the master page of the last page in the section.
- Choose End of Document to place new pages at the end of the layout. Inserted pages use the master page of the layout’s last page.

Text overflow causes pages to be automatically inserted only if (1) Auto Page Insertion is enabled, (2) the master page that is used has an automatic text chain (as indicated by the intact chain icon in the upper left corner of the master page), or (3) the overflow is either from the text box defined on the master page as the automatic text box or from a chain of at least two text boxes. If there is no automatic text chain on the applied master page (indicated by the broken chain icon), QuarkXPress Server does not add pages during overflow, regardless of the Auto Page Insertion setting.
MEASUREMENTS (Pane)

QuarkXPress Server → Preferences

Use the Measurements pane to specify default measuring units.

Preferences dialog box displaying Measurements pane

HORIZONTAL, VERTICAL (DROP-DOWN MENUS)

QuarkXPress Server → Preferences → Measurements pane

From the Horizontal and Vertical drop-down menus, choose the measurement system for horizontal and vertical values. Horizontal values are applied from the left to the right of the layout. Vertical values are applied from the top to the bottom.

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>ABBREVIATION</th>
<th>MEASUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches</td>
<td>in or &quot;</td>
<td>inches in eighths</td>
</tr>
<tr>
<td>Inches</td>
<td>in or &quot; with</td>
<td>inches in tenths</td>
</tr>
<tr>
<td>decimal</td>
<td>a decimal</td>
<td></td>
</tr>
<tr>
<td>Picas</td>
<td>p</td>
<td>1/6&quot; or 12pt</td>
</tr>
<tr>
<td>Points</td>
<td>pt</td>
<td>1/72&quot;</td>
</tr>
<tr>
<td>Millimeters</td>
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<td>c</td>
<td>0.179&quot;</td>
</tr>
<tr>
<td>Agates</td>
<td>ag</td>
<td>0.071&quot;</td>
</tr>
</tbody>
</table>

POINTS/INCH (FIELD)

QuarkXPress Server → Preferences → Measurements pane

In the Points/Inch field, enter a value that forms the basis for all point and pica measurements and for all point and pica-to-inch conversions. The default value is 72 points per inch. However, the traditional typographic standard used on most metal typographic rulers is usually approximately 72.27 or 72.307 points per inch.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>60pt to 80pt</td>
<td>points</td>
<td>.001</td>
</tr>
</tbody>
</table>
CICEROS/CM (FIELD)
QuarkXPress Server → Preferences → Measurements pane
In the Ciceros/cm field, enter a ciceros-to-centimeter conversion value. The default value is 2.197.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2c to 3c</td>
<td>ciceros</td>
<td>.0001</td>
</tr>
</tbody>
</table>

ITEM COORDINATES (BUTTONS)
QuarkXPress Server → Preferences → Measurements pane
Use the Item Coordinates buttons to determine the functionality of the horizontal ruler. Item Coordinates are applicable only to Print layouts.

- Click Page to start the horizontal ruler from zero for each page. This is the default setting.
- Click Spread to continue the horizontal ruler across the layout.

PARAGRAPH (PANE)
QuarkXPress Server → Preferences
Use the Paragraph pane to specify how paragraph formats such as auto leading are calculated in QuarkXPress Server when projects are created on the fly.

Preferences dialog box displaying Paragraph pane

LEADING (AREA)
QuarkXPress Server → Preferences → Paragraph pane
Use the Leading area to define the distance between text baselines in paragraphs.
**MODE (BUTTONS)**
*QuarkXPress Server → Preferences → Paragraph pane*

Using the Mode buttons, you can specify the leading method used to space lines of text.

- Click **Typesetting** for leading to be measured upward from the baseline on one line of text to the baseline of the line above. This is the method preferred by most typesetters and is selected by default.
- Click **Word Processing** for leading to be measured downward from the top of the ascent on one line of text to the top of the ascent on the line below it.

**AUTO LEADING (FIELD)**
*QuarkXPress Server → Preferences → Paragraph pane*

In the Auto Leading field, enter the line spacing percentage. Unlike paragraphs with absolute leading (which applies identical line spacing above every line), paragraphs with auto leading can include lines with different leading when different fonts and font sizes are mixed in the same paragraph.

Auto leading starts with a base amount of leading, which is calculated by examining the ascent and descent values built in to the fonts used in an auto-leaded line and the line above it; however, the user-specified text size is the major factor that determines this base amount. Finally, any value you specify in the Auto Leading field is added to the base amount to arrive at the total amount of leading.

**MAINTAIN LEADING (CHECK BOX)**
*QuarkXPress Server → Preferences → Paragraph pane*

With Maintain Leading, you can control the placement of a line of text that falls immediately below an obstruction in a column or box. Check Maintain Leading to place the line’s baseline according to its applied leading value. Uncheck Maintain Leading to place the ascent of the line at the bottom of the obstruction or any applied runaround value *(Item → Runaround)*. This box is checked by default.

**BASELINE GRID (AREA)**
*QuarkXPress Server → Preferences → Paragraph pane*

A baseline grid is a layout-wide grid; you can lock the baselines of text in paragraphs to this grid. When you lock text baselines in adjacent columns to the grid, the baselines align across columns.

- In the **Start** field, enter how far from the top of the page the first line of the grid must be placed. The default value is 0.5 mm.
- In the **Increment** field, enter the space between the grid’s baselines. The default value is 12pt.

<table>
<thead>
<tr>
<th>INCREMENT RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spt to 144pt</td>
<td>points</td>
<td>.001</td>
</tr>
</tbody>
</table>
**METHOD (DROP-DOWN MENU)**

*QuarkXPress Server ➔ Preferences ➔ Paragraph pane ➔ Hyphenation area*

From the **Method** drop-down menu in the **Hyphenation** area, choose a method to hyphenate paragraphs automatically for the chosen languages. The setting you choose affects only paragraphs for which **Auto Hyphenation** (Server/QuarkXPress Server ➔ Document Controls ➔ H&J) is enabled.

- Choose **Standard** to hyphenate using the algorithm built in to versions of QuarkXPress earlier than QuarkXPress 3.1.
- Choose **Enhanced** to hyphenate using the algorithm built in to versions of QuarkXPress later than QuarkXPress 3.1.
- Choose **Expanded** to check any built-in hyphenation dictionaries before resorting to the same algorithm as the one used for the **Enhanced** option. This option was added in QuarkXPress 4.0 and is the default method for projects created in QuarkXPress 6.5.
- Choose **Extended 2** to use algorithms using third-party Dieckman resources.

Projects created in earlier versions of QuarkXPress maintain their hyphenation method (**Standard** or **Enhanced**) when opened in a later version. If you choose **Expanded** for these projects, text reflow might occur.

**CHARACTER (PANE)**

*QuarkXPress Server ➔ Preferences*

Use the **Character** pane to specify how mathematically calculated typographical styles such as **Superscript** and **Subscript** are created in QuarkXPress Server.
**SUPERSCRIPT (AREA)**

*QuarkXPress Server → Preferences → Character pane*

Use the **Superscript** area to control the placement and scale (size) of superscript characters.

- In the **Offset** field, enter how far below the baseline QuarkXPress Server places a superscript character. The **Offset** value is measured as a percentage of font size. The default value is 33%.
- In the **VScale** field, enter the vertical size of the character. This value is measured as a percentage of the font size.
- In the **HScale** field, enter the horizontal size of the character. This value is measured as a percentage of the normal character width (as specified by the font designer). The default value for both scales is 100%.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0% to 100%</td>
<td>percent</td>
<td>.1</td>
</tr>
</tbody>
</table>

**SUBSCRIPT (AREA)**

*QuarkXPress Server → Preferences → Character pane*

Use the **Subscript** area to control the placement and scale (size) of subscript characters.

- In the **Offset** field, enter how far below the baseline QuarkXPress Server places a subscript character. The **Offset** value is measured as a percentage of font size. The default value is 33%.
- In the **VScale** field, enter the vertical size of characters. This value is measured as a percentage of the font size. The default value is 100%.
- In the **HScale** field, enter the width of characters. This value is measured as a percentage of the normal character width (as specified by the font designer). The default value is 100%.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0% to 100%</td>
<td>percent</td>
<td>.1</td>
</tr>
</tbody>
</table>

**SMALL CAPS (AREA)**

*QuarkXPress Server → Preferences → Character pane*

Use the **Small Caps** area to control the scale of characters with the **Small Caps** type style applied to them.

- In the **VScale** field, enter the vertical size of the character. This value is measured as a percentage of font size. The default value is 75%.
- In the **HScale** field, enter the width of the character. This value is measured as a percentage of the normal character width (as specified by the font designer). The default value is 75%.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0% to 100%</td>
<td>percent</td>
<td>.1</td>
</tr>
</tbody>
</table>
**SUPERIOR (AREA)**

QuarkXPress Server → Preferences → Character pane

Use the Superior area to control the scale of superior characters.

- In the VScale field, enter the vertical size of the character. This value is measured as a percentage of font size. The default value is 50%.

- In the HScale field, enter the width of the character. This value is measured as a percentage of the normal character width (as specified by the font designer). The default value is 50%.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0% to 100%</td>
<td>percent</td>
<td>.1</td>
</tr>
</tbody>
</table>

**LIGATURES (AREA) — MAC OS ONLY**

QuarkXPress Server → Preferences → Character pane

Use the Ligatures area to use ligatures built in to a font. A ligature is a typographic convention in which certain characters are combined into a single character. Most fonts designed for the Mac OS contain ligatures for the character “f” followed by the character “i,” and “f” followed by the the character “l.”

- Check Ligatures to combine all instances of “fi” followed by “i” and “fi” followed by “l” into ligatures. You can edit and check the spelling of words that contain ligatures as if the ligatures were separate characters. Ligatures is unchecked by default.

When you check Ligatures, the Break Above field is enabled. In the Break Above field, enter the kerning or tracking value (measured in 1/200 em space increments) above which characters are not combined into ligatures. For example, a headline with a large tracking value would probably not contain ligatures. The default value is 1.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 10</td>
<td>.005 (%00) em space</td>
<td>.001</td>
</tr>
</tbody>
</table>

- Check Not “ffi” or “ffl” to prevent the last two letters in “ffi” and “ffl” (as in “office” and “waffle”) from being combined into ligatures. Three-character ligatures for these combinations, common in traditional typesetting systems, are not standardized in fonts designed for Mac OS; therefore, some typographers prefer to keep all three letters separate rather than combine only two of them. This option is unchecked by default.

**AUTO KERN ABOVE (CHECK BOX AND FIELD)**

QuarkXPress Server → Preferences → Character pane

Check Auto Kern Above to use kerning tables, which are built in to most fonts, to control inter-character spacing.
In the **Auto Kern Above** field, enter the point size above which to use automatic kerning.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2pt to 720pt</td>
<td>various</td>
<td>.001</td>
</tr>
</tbody>
</table>

**STANDARD EM SPACE (CHECK BOX)**

*QuarkXPress Server ➔ Preferences ➔ Character pane*

An em space consists of two en spaces. Check **Standard Em Space** to specify an em space equivalent to the point size of the text (for example, 24pt text has a 24pt em space).

Uncheck **Standard Em Space** to use the width of the two zeros in the current font as the em space width. This box is unchecked by default.

**FLEX SPACE WIDTH (FIELD)**

*QuarkXPress Server ➔ Preferences ➔ Character pane*

A flexible space is a user-modifiable variation of a standard en space. Typographers use it when a standard space is not aesthetically appealing.

In the **Flex Space Width** field, enter the desired width of a flexible space. The **Flex Space Width** value is expressed as a percentage of the normal en space for a given font and font size. The default value is 50%.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0% to 400%</td>
<td>percent</td>
<td>.1</td>
</tr>
</tbody>
</table>

**ACCENTS FOR ALL CAPS (CHECK BOX)**

*QuarkXPress Server ➔ Preferences ➔ Character pane*

Check **Accents for All Caps** to specify whether to include accent marks on accented characters to which the **All Caps** type style is applied. It is checked by default.

The **Accents for All Caps** check box applies to projects created in QuarkXPress 5.0 or later. To update the text flow in earlier versions, press Option (Mac OS) or Alt (Windows) while you click **Open** in the **Open** dialog box.

**TOOLS (PANE)**

*QuarkXPress Server ➔ Preferences ➔ Tools*

The controls in the **Tools** pane are not relevant to QuarkXPress Server and should be ignored.

**TRAPPING (PANE)**

*QuarkXPress Server ➔ Preferences*

Use the **Trapping** pane to specify default settings for the way QuarkXPress Server traps colors and objects when you color-separate a Print layout.
TRAPPING METHOD (AREA)

QuarkXPress Server ➔ Preferences ➔ Trapping pane

Use the Trapping Method drop-down menu to choose the method QuarkXPress Server uses to determine the trapping relationship between object colors and background colors.

- Choose Absolute to trap using the values in the Auto Amount and Indeterminate fields according to the object and background colors involved. If the object color is dark, the background chokes the object color by the Auto Amount value. If the object color is light, the object is spread into the background by the Auto Amount value. Absolute is the default option.

- Choose Proportional to trap using the value in the Auto Amount field multiplied by the difference between the luminosity (lightness or brightness) of the object color and background color. Proportional trapping compares the luminosity of the object color and background color to determine how different they are and applies trapping accordingly.

- Choose Knockout All to turn off trapping.

PROCESS TRAPPING (CHECK BOX)

QuarkXPress Server ➔ Preferences ➔ Trapping pane

Check Process Trapping to trap each process separation plate individually when a page contains overlapping process colors. When you print color separations, QuarkXPress Server compares the darkness of each process component of an object color to the darkness of the corresponding process component of the background color and traps accordingly. For example, the shade of cyan in an object color is compared with the shade of cyan in the background color; similar comparisons are made for the other plates that are used for output. This option is checked by default.
When working with QuarkXPress Server:

- When adjoining process colors have an absolute trapping relationship and Process Trapping is checked, QuarkXPress Server divides the Auto Amount trapping value in half and applies the resulting value to the darker component of the color on each plate (as shown in the table). Dividing the value among plates creates a smoother trap while providing the same area of overlap.

<table>
<thead>
<tr>
<th>COLOR</th>
<th>OBJECT</th>
<th>ABSOLUTE</th>
<th>PROPORTIONAL</th>
<th>TRAP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BACKGROUND</td>
<td>TRAP</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>70%</td>
<td>30%</td>
<td>½ trap amount</td>
<td>Auto Amount (70%–30%)+2</td>
</tr>
<tr>
<td>M</td>
<td>30%</td>
<td>50%</td>
<td>½ trap amount</td>
<td>Auto Amount (30%–50%)+2</td>
</tr>
<tr>
<td>Y</td>
<td>70%</td>
<td>80%</td>
<td>½ trap amount</td>
<td>Auto Amount (70%–80%)+2</td>
</tr>
<tr>
<td>K</td>
<td>20%</td>
<td>15%</td>
<td>½ trap amount</td>
<td>Auto Amount (20%–15%)+2</td>
</tr>
</tbody>
</table>

- When abutting process colors have a proportional trapping relationship, QuarkXPress Server multiplies the Auto Amount value specified in the Trapping pane by the difference in darkness between the object color and the background color. The resulting trapping value is then applied the same way as adjoining colors for colors with absolute trapping relationships.

Uncheck Process Trapping to trap all process components equally using the trapping value associated with the object color relative to the background color.

For text up to 24pt and small items (dimensions up to 10pt), QuarkXPress Server attempts to preserve the item’s shape during process trapping by not allowing automatic spreads or chokes when the item’s shape would be compromised. QuarkXPress Server attempts to preserve item shape by comparing the darkness of each process component of an item to the darkness of its entire background. A spread is applied only when the process components of an item are less than or equal to half the darkness of its background. A choke is applied only when the process components of a background are less than or equal to half the darkness of the item in front of it. You cannot choke text.

**IGNORE WHITE (CHECK BOX)**

QuarkXPress Server → Preferences → Trapping pane

Check Ignore White to specify that an object color in front of multiple background colors — including white — does not take white into account when trapping. It is checked by default.
Uncheck **Ignore White** to overprint white background (overprint is treated as an infinite choke) by all items. If an object color is in front of both a white background and a background color against which the object color is specified to spread, the object color traps to the indeterminate color. If an object color is in front of both a white background and two or more background colors to which the object color is specified to choke, the object color chokes (traps) using the smallest choke value.

**AUTO AMOUNT (DROP-DOWN MENU)**

From the **Auto Amount** drop-down menu, choose or enter the amount of trapping that QuarkXPress applies to object and background colors that have an **Auto Amount** (+/−) relationship specified in the **Trap Specifications** dialog box (Edit → Colors → Edit Trap) or the **Trap Information** palette (View → Show Trap Information). The default value is .144pt.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0pt to 36pt</td>
<td>points</td>
<td>.001</td>
</tr>
</tbody>
</table>

Choose **Overprint** from the **Auto Amount** drop-down menu to overprint the objects and background colors with **Auto Amount** (+/−) specified in the **Trap Specifications** dialog box or the **Trap Information** palette.

**INDETERMINATE (DROP-DOWN MENU)**

From the **Indeterminate** drop-down menu, choose or enter the trapping applied by QuarkXPress Server to object colors that are in front of indeterminate backgrounds (multiple colors with conflicting trapping relationships or imported pictures). The default amount is .14pt.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>±36pt</td>
<td>points</td>
<td>.001</td>
</tr>
</tbody>
</table>

Choose **Overprint** from the **Indeterminate** drop-down menu to cause object colors to overprint indeterminate backgrounds.

**KNOCKOUT LIMIT (FIELD)**

In the **Knockout Limit** field (expressed as a percentage of luminosity of the object color compared with the background color), enter the point at which an object color knocks out a background color. The default value is 0%.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0% to 100%</td>
<td>percent</td>
<td>.1</td>
</tr>
</tbody>
</table>
OVERPRINT LIMIT (FIELD)
QuarkXPress Server → Preferences → Trapping pane
The Overprint Limit value controls the following trapping behavior:

• Although the default color Black overprints by default, objects colored black with shade values below the Overprint Limit do not overprint.
• Any object that has a color that is set to Overprint (in the Trap Specifications dialog box) and that has a shade value below the Overprint Limit does not overprint.
• If the value of the black component of a “rich black” is below the overprint limit, rich black trapping does not occur.

For example, if you enter 95% in this field, a 90% shaded object that has a color set to Overprint a background color (in the Trap Specifications dialog box) does not overprint; instead, it traps according to the Auto Amount value specified. The default Overprint Limit is 95%.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0% to 100%</td>
<td>percent</td>
<td>.1</td>
</tr>
</tbody>
</table>

When you open a dialog box in QuarkXPress Server, the HTTP server pauses, which prevents conflict with any jobs that are being processed. When you close the dialog box, the HTTP server starts again.

COLOR MANAGER (PANE)
QuarkXPress Server → Preferences → Color Manager
Use the Color Manager pane to specify color management preferences for monitors and output devices, imported pictures, and any colors used in QuarkXPress projects.

Preferences dialog box displaying Color Manager pane
**TRANSFORMATION METHOD (AREA)**
*QuarkXPress Server ➔ Preferences ➔ Color Manager pane*
Use the controls in this area to control which color engine is used to transform color and to turn black point compensation on and off.

**COLOR ENGINE (DROP-DOWN MENU)**
*QuarkXPress Server ➔ Preferences ➔ Color Manager pane*
To specify a particular color management engine, choose the engine’s name from this drop-down menu. To let QuarkXPress Server choose the appropriate color management engine, choose **Automatic**.

**BLACK POINT COMPENSATION (CHECK BOX)**
*QuarkXPress Server ➔ Preferences ➔ Color Manager pane*
Black point compensation is a method of tuning blacks to more accurately simulate the capabilities of various output devices. To turn on black point compensation, check this box. This box is checked by default.

**SOURCE OPTIONS (AREA)**
*QuarkXPress Server ➔ Preferences ➔ Color Manager pane*
Use controls in this area to specify which source color setup QuarkXPress Server should use, and to turn access to picture profiles on and off.

**SOURCE SETUP (DROP-DOWN MENU)**
*QuarkXPress Server ➔ Preferences ➔ Color Manager pane*
Use this drop-down menu to specify the source color space of pictures and colors used in QuarkXPress Server.

**ENABLE ACCESS TO PICTURE PROFILES (CHECK BOX)**
*QuarkXPress Server ➔ Preferences ➔ Color Manager pane*
This control is not relevant to QuarkXPress Server and should be ignored.

**SOFT PROOFING (AREA)**
*QuarkXPress Server ➔ Preferences ➔ Color Manager pane*
The controls in the **Soft Proofing** area are not relevant to QuarkXPress Server and should be ignored.

**VECTOR EPS/PDF FILES (AREA)**
*QuarkXPress Server ➔ Preferences ➔ Color Manager pane*
Use the **Vector EPS/PDF Files** area to choose the International Color Consortium (ICC) profiles that correspond to your devices.

**COLOR MANAGE VECTOR EPS/PDF (CHECK BOX)**
*QuarkXPress Server ➔ Preferences ➔ Color Manager pane*
To turn on color management for vector EPS and PDF pictures, check this box. This box is unchecked by default.

**INCLUDE EXISTING VECTOR EPS/PDF IN LAYOUT (CHECK BOX)**
*QuarkXPress Server ➔ Preferences ➔ Color Manager pane*
To apply the specified color management settings to pictures, check this box. This box is unchecked by default.
LAYERS (PANE)

QuarkXPress Server → Preferences → Layers

Use the Layers pane to specify the settings used when a layer is created.

Preferences dialog box Layers pane in Default Print Layout list

NEW LAYER DEFAULTS (AREA)

QuarkXPress Server → Preferences → Layers pane

Use the New Layer Defaults area to set layer preferences for layers to be added using QuarkXPress Server.

VISIBLE (CHECK BOX)

QuarkXPress Server → Preferences → Layers pane

Check Visible to make new layers visible by default, and to enable the Suppress Output check box.

SUPPRESS OUTPUT (CHECK BOX)

QuarkXPress Server → Preferences → Layers pane

Check Suppress Output to prevent new layers from being rendered.

LOCKED (CHECK BOX)

QuarkXPress Server → Preferences → Layers pane

Check Locked to make new layers locked by default. This box is unchecked by default.

KEEP RUNAROUND (CHECK BOX)

QuarkXPress Server → Preferences → Layers pane

Check Keep Runaround to make text on visible new layers flow around items on hidden layers.
STYLE SHEETS

Use style sheets to group paragraph formats, character attributes, rules, and tab settings so that you can apply them collectively with one action. The Style Sheets command (Server/QuarkXPress Server → Document Controls → Style Sheets) displays the Style Sheets dialog box, which lets you create and manage paragraph and character style sheets.

Default style sheets can be applied to content in projects using Modifier XTensions software. For more information, see “Modifier XTensions software” in Chapter 4, “XTensions software.”

DEFAULT STYLE SHEETS (DIALOG BOX)

Server/QuarkXPress Server → Document Controls → Style Sheets

Use the Default Style Sheets dialog to create, edit, duplicate, and delete default paragraph and character style sheets for your QuarkXPress Server application.

Default Style Sheets dialog box

NEW (DROP-DOWN BUTTON)

Default Style Sheets dialog box

To create a default style sheet, choose an option from the New drop-down button:

- Choose Paragraph (¶) to create a style sheet that contains paragraph attributes. (Paragraph style sheets also contain a default character style sheet.) The Edit Paragraph Style Sheet dialog box displays.
- Choose Character (abella) to create a style sheet that contains only character attributes. The Edit Character Style Sheet dialog box displays.
EDIT (BUTTON)
Default Style Sheets dialog box
Click the Edit button to display the Edit Paragraph Style Sheet dialog box or the Edit Character Style Sheet dialog box, depending on what type of style sheet you select in the list. The dialog box displays the current Description for the selected style sheet. You can also double-click a style sheet in the list to display the dialog box.

DUPLICATE (BUTTON)
Default Style Sheets dialog box
Click Duplicate to create a copy of the selected style sheet. QuarkXPress Server automatically displays the Edit Paragraph Style Sheet dialog box or the Edit Character Style Sheet dialog box so that you can rename and edit the duplicate style sheet.

DELETE (BUTTON)
Default Style Sheets dialog box
Click Delete to remove the selected style sheets. You cannot delete the Normal style sheets.

APPEND (BUTTON)
Default Style Sheets dialog box
Use the Append button to import style sheets from a QuarkXPress project, document, template, or library:
1. Click Append to display the Append Style Sheets dialog box.
2. Select a QuarkXPress project, document, template, or library and click Open. The Append dialog box displays. The Available column lists all the appropriate style sheets in the source file.
3. Select the style sheets to import and double-click them or click ☐ to move them to the Include column. To select a range of style sheets, click the first style sheet and press Shift while you click the last style sheet in the range. To select non-consecutive style sheets, press Command/Ctrl while you click each style sheet.

SAVE (BUTTON)
Default Style Sheets dialog box
Click Save to save changes made to style sheets in the Style Sheets dialog box.

EDIT PARAGRAPH STYLE SHEET (DIALOG BOX)
Server/QuarkXPress Server → Document Controls → Style Sheets → New → Paragraph
Choose New → Paragraph (or click Edit or Duplicate when a paragraph style sheet is selected) to display the Edit Paragraph Style Sheet dialog box, which lets you create or edit a paragraph style sheet.
NAME (FIELD)

In the **Name** field, enter a name for a new style sheet or rename an existing style sheet.

Below the **Name** field are four tabs: **General**, **Formats**, **Tabs**, and **Rules**. The **Formats**, **Tabs**, and **Rules** tabs enable you to specify the paragraph formats that are automatically applied to text when you apply a paragraph style sheet. The controls in these three tabs are the same as those in the QuarkXPress **Paragraph Attributes** dialog box (Style → Formats).

GENERAL (TAB)

Click the **General** tab to specify keyboard commands and other attributes for a style sheet.
General tab

**KEYBOARD EQUIVALENT (FIELD)**
_Edit Paragraph Style Sheet dialog box → General tab_

The **Keyboard Equivalent** field is not relevant to QuarkXPress Server and should be ignored.

**BASED ON (DROP-DOWN MENU)**
_Edit Paragraph Style Sheet dialog box → General tab_

From the **Based On** drop-down menu, choose a style sheet to base your new style sheet on. The default option is **No Style**.

Modifications made to a style sheet that serves as the foundation for another style sheet affect both style sheets.

**NEXT STYLE (DROP-DOWN MENU)**
_Edit Paragraph Style Sheet dialog box → General tab_

From the **Next Style** drop-down menu, choose a style sheet to follow the current style sheet when you are entering text. For example, you can specify that a paragraph with a “subheading” style sheet be followed automatically by a paragraph with a “byline” style sheet, which in turn can be followed by a paragraph with a “body copy” style sheet. The style automatically changes to the style specified in the **Next Style** drop-down menu after a return is inserted at the end of the paragraph. Choosing a **Next Style** option does not affect existing text.

- The drop-down menu lists all default style sheets.
- Choose **Self** from the **Next Style** drop-down menu to continue using the same style sheet in the next paragraph.
CHARACTER ATTRIBUTES (AREA)
*Edit Paragraph Style Sheet dialog box ➔ General tab*
Paragraph style sheets contain a character style sheet. The character style sheet is applied to all the characters in a paragraph when you apply a paragraph style sheet to it.

**STYLE (DROP-DOWN MENU)**
*Edit Paragraph Style Sheet dialog box ➔ General tab*
From the **Character Style** drop-down menu, choose a character style sheet.

- Click **New** to create a character style sheet in the **Edit Paragraph Style Sheet** dialog box. The **Edit Character Style Sheet** dialog box displays. After you make your edits, click **OK** to return to the **Edit Paragraph Style Sheet** dialog box. The new style sheet name automatically displays in the **Character Style** drop-down menu.

- Click **Edit** to edit the character style sheet selected in the **Character Style** drop-down menu. The **Edit Character Style Sheet** dialog box displays. After you make your edits, click **OK** to return to the **Edit Paragraph Style Sheet** dialog box.

**FORMATS (TAB)**
*Edit Paragraph Style Sheet dialog box*
Click the **Formats** tab to specify indentations, line spacing, paragraph spacing, drop caps, and other characteristics for a paragraph or range of paragraphs. Not all of these controls apply to text paths.
**LEFT INDENT (FIELD)**
*Edit Paragraph Style Sheet dialog box → Formats tab*
In the **Left Indent** field, enter the distance from the left edge of a column, text box, or text path to the left edge of a paragraph.

**FIRST LINE (FIELD)**
*Edit Paragraph Style Sheet dialog box → Formats tab*
In the **First Line** field, enter the distance from the **Left Indent** to the beginning of the first line of a paragraph. Enter a positive value to indent the first line to the right of the **Left Indent**. To indent the first line to the left of the **Left Indent** (a hanging indentation), enter a negative value in this field and enter a positive value in the **Left Indent** field. If you are specifying formats for a text path, the field works the same way; however, you cannot have more than one line of text on a text path.

**RIGHT INDENT (FIELD)**
*Edit Paragraph Style Sheet dialog box → Formats tab*
In the **Right Indent** field, enter the distance from the right edge of a column, text box, or text path to the right edge of a paragraph.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>column width</td>
<td>various</td>
<td>.001</td>
</tr>
</tbody>
</table>

**LEADING (FIELD)**
*Edit Paragraph Style Sheet dialog box → Formats tab*
In the **Leading** field, enter the amount of space between lines of text. For information about leading, see “**Auto Leading** (field)” earlier in this chapter.

**SPACE BEFORE, SPACE AFTER (FIELDS)**
*Edit Paragraph Style Sheet dialog box → Formats tab*
In the **Space Before** and **Space After** fields, enter how much space precedes and follows a paragraph. The space between two paragraphs is the sum of the **Space After** the first paragraph and the **Space Before** the second paragraph.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 15&quot;</td>
<td>various</td>
<td>.001</td>
</tr>
</tbody>
</table>

**Space Before** is not applied when a paragraph falls at the top of a column. **Space After** is not applied when a paragraph falls at the bottom of a column. Neither is applied to text paths.

**ALIGNMENT (DROP-DOWN MENU)**
*Edit Paragraph Style Sheet dialog box → Formats tab*
From the **Alignment** drop-down menu, choose an alignment for paragraphs:

- **Left** aligns paragraphs with the left indentation.
- **Centered** centers each line between the left and right indentations.
• **Right** aligns paragraphs with the right indentation.
• **Justified** aligns paragraphs with the left and right indentations; the last line might be shorter than the width of the paragraph.
• **Forced** aligns all lines in a paragraph, including the last line, with the left and right indentations.

Paragraphs are aligned within the bounds established by the **First Line**, **Left Indent**, and **Right Indent** values. If the paragraph alignment is set to **Centered**, the **First Line** value is added to any line indentation caused by the centered alignment.

**H&J (DROP-DOWN MENU)**
*Edit Paragraph Style Sheet dialog box ➔ Formats tab*

H&Js (hyphenation and justification specifications) control the hyphenation and spacing of text.

From the **H&J** drop-down menu, choose a hyphenation and spacing style that is defined in the **H&Js** dialog box (Server/QuarkXPress Server ➔ Document Controls ➔ H&Js).

**LANGUAGE (DROP-DOWN MENU)**
*Edit Paragraph Style Sheet dialog box ➔ Formats tab*

From the **Language** drop-down menu, choose the applicable language from a list of languages.

**DROP CAPS (CHECK BOX)**
*Edit Paragraph Style Sheet dialog box ➔ Formats tab*

Check **Drop Caps** to specify an initial drop cap character for a paragraph. The **Character Count** and **Line Count** fields are enabled.

• In the **Character Count** field, enter the number of drop cap characters (from 1 to 127).
• In the **Line Count** field, enter the number of lines the characters drop (from 2 to 16).

**KEEP LINES TOGETHER (CHECK BOX)**
*Edit Paragraph Style Sheet dialog box ➔ Formats tab*

Check **Keep Lines Together** to prevent widows and orphans by specifying how paragraphs break at the bottom of columns. (In QuarkXPress, a widow is defined as the last line of a paragraph that falls at the top of a column; an orphan is defined as the first line of a paragraph that falls at the bottom of a column.) Checking **Keep Lines Together** lets you use the **All Lines in ¶** and **Start/End** options.

• Click **All Lines in ¶** to specify that a paragraph does not break at the bottom of a column. If all the lines in a paragraph do not fit in one column, the entire paragraph is carried to the next column.
• In the **Start** field, enter the minimum number of lines to remain at the bottom of a column.

• In the **End** field, enter the minimum number of lines to be carried over to the next column.

If a paragraph does not contain enough lines to meet the start and end criteria, the entire paragraph is carried to the next column.

**KEEP WITH NEXT ¶ (CHECK BOX)**

*Edit Paragraph Style Sheet dialog box ➔ Formats tab*

Check **Keep with Next ¶** to force a paragraph to flow with the following paragraph (for example, to ensure that a subheading stays connected with the first related paragraph).

**LOCK TO BASELINE GRID (CHECK BOX)**

*Edit Paragraph Style Sheet dialog box ➔ Formats tab*

Using a baseline grid aligns paragraphs horizontally across columns and text boxes. Check **Lock to Baseline Grid** to lock selected paragraphs to the grid.

The grid is defined in the **Baseline Grid** area in the **Paragraph** pane of the **Preferences** dialog box (**QuarkXPress Server ➔ Preferences**).

**TABS (TAB)**

*Edit Paragraph Style Sheets dialog box*

Click the **Tabs** tab of the **Paragraph Attributes** dialog box to specify the alignment, position, and fill character for tab stops.
ALIGNMENT (BUTTONS)
Edit Paragraph Style Sheets dialog box ➔ Tabs tab
The alignment buttons enable you to choose an alignment for a tab stop.

- Choose **Left** to align tabbed text flush left along a tab stop.
- Choose **Center** to center align tabbed text along a tab stop.
- Choose **Right** to align tabbed text flush right along a tab stop. To align characters flush along the right indent of a column regardless of other tab stops, place the **Text Insertion** bar (1) immediately to the left of the characters and press Option/Shift+Tab.
- Choose **Decimal** to position tabbed text by aligning decimal points (periods) along a tab stop.
- Choose **Comma** to align commas in tabbed text along a tab stop.
- Choose **Align On** to align occurrences of a user-specified character in tabbed text along a tab stop. The **Align On** option enables you to enter this character in the **Align On** field. You can enter any printing character.

![Alignment buttons]

If you choose **Decimal**, **Comma**, or **Align On** and the text (usually a number) does not contain a period, comma, or a specified alignment character, the text aligns on the first non-numeric character following the text (such as a tab, space, or carriage return).

POSITION (FIELD)
Edit Paragraph Style Sheets dialog box ➔ Tabs tab
In the **Position** field, enter tab stops. Tab stops are measured from the **Text Inset** value on the left edge of a box or column. When you enter the tab stop value in the **Position** field, the new tab stops immediately display on the tab ruler.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>column width</td>
<td>various</td>
<td>.001</td>
</tr>
</tbody>
</table>

Click **Set** to deselect the tab stop. You can enter values for the next tab stop.

FILL CHARACTERS (FIELD)
Edit Paragraph Style Sheets dialog box ➔ Tabs tab
A fill character, such as a dot leader in a table of contents, “fills” the space between a tab character and the next tab stop.
In the **Fill Characters** field, enter any character to be repeated or any two characters to alternate (one of the characters can be a space). Fill characters are aligned flush right with the tab stop position. (Fill characters cannot be invisible characters; they must be printed characters.)

**ALIGN ON (FIELD)**
*Edit Paragraph Style Sheets dialog box → Tabs tab*
In the **Align On** field, enter any printing character to align tabbed text with. This field is available when the **Align On** button is chosen.

**SET (BUTTON)**
*Edit Paragraph Style Sheets dialog box → Tabs tab*
Click **Set** to deselect a selected tab stop in the tab ruler that displays above the active column. You can enter values for the next tab stop.

**CLEAR ALL (BUTTON)**
*Edit Paragraph Style Sheets dialog box → Tabs tab*
Click **Clear All** to delete all custom tab stops from the active paragraphs.

**RULES (TAB)**
*Edit Paragraph Style Sheets dialog box*
Click the **Rules** tab of the **Paragraph Attributes** dialog box to specify the length, position, style, width, color, and shade of paragraph rules.
**RULE ABOVE, RULE BELOW (CHECK BOXES)**

*Edit Paragraph Style Sheets dialog box → Rules tab*

Use **Rule Above** and **Rule Below** to specify whether horizontal lines display above or below a paragraph. Check **Rule Above** or **Rule Below** to access controls for specifying the placement and style of the rules.

**LENGTH (DROP-DOWN MENU)**

*Edit Paragraph Style Sheets dialog box → Rules tab*

From the **Length** drop-down menu, choose whether rules fit within the paragraph indentations or match the length of the text.

- Choose **Indents** to specify a rule that extends from the paragraph’s left indentation to its right indentation. Indentations are specified in the **Formats** tab of the **Paragraph Attributes** dialog box (*Style → Formats*).
- Choose **Text** to specify a rule above that matches the length of the first line of text in the paragraph and a rule below that matches the length of the last line of text in the paragraph.

The **From Left** and **From Right** values in the **Rules** tab of the **Paragraph Attributes** dialog box apply regardless of whether you choose **Indents** or **Text**.

**FROM LEFT, FROM RIGHT (FIELDS)**

*Edit Paragraph Style Sheets dialog box → Rules tab*

In the **From Left** and **From Right** fields, enter the placement of a rule in relation to the specified length.

- In the **From Left** field, enter the distance between the left end of a rule and either the left indentation of the paragraph (**Length set to Indents**) or the left end of a line of text (**Length set to Text**).
- In the **From Right** field, enter the distance between the right end of a rule and either the right indentation of the paragraph (**Length set to Indents**) or the right end of a line of text (**Length set to Text**).

Large positive values create short rules, and small positive values create long rules. You can enter negative values if an indentation is applied to the paragraph.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Column width</td>
<td>various</td>
<td>.001</td>
</tr>
</tbody>
</table>
OFFSET (FIELD)
Edit Paragraph Style Sheets dialog box → Rules tab
In the Offset field, enter the amount of vertical space between a paragraph and a rule. You can enter an absolute value or a percentage. (The Offset field is not available in HTML text boxes.)

• Absolute values are measured from the baseline of the first line of a paragraph to the bottom of a rule above, and from the baseline of the last line of a paragraph to the top of a rule below. Positive values move the rule farther away from the text. Negative values move the rule closer to the text. Using an absolute negative offset value for a rule above, you can overlap white text with a dark-colored rule to create reverse type.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0” to 15” or ½ rule width</td>
<td>various</td>
<td>.001</td>
</tr>
</tbody>
</table>

• In the Offset field, enter a percentage to make the rule act like an auto-leaded line of text, which prevents text from overlapping. The 100% value in the Offset field is defined by the total distance between paragraphs. For example, a 30% Offset for a Rule Above adds 30% of the total inter-paragraph space below the center of the rule. The default rule Offset percentage is 0%.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0% to 100%</td>
<td>percent</td>
<td>.1</td>
</tr>
</tbody>
</table>

STYLE (DROP-DOWN MENU)
Edit Paragraph Style Sheets dialog box → Rules tab
From the Style drop-down menu, choose from a list of default line styles.

WIDTH (FIELD AND DROP-DOWN MENU)
Edit Paragraph Style Sheets dialog box → Rules tab
In the Width field, choose from a list of line widths from the drop-down menu or enter a value.

Choose Hairline to print the rule at .125pt to a PostScript imagesetter (but wider on a laser printer). Entering a “0” in any line width field specifies a Hairline value.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0pt to 864pt</td>
<td>various</td>
<td>.001</td>
</tr>
</tbody>
</table>

COLOR (DROP-DOWN MENU)
Edit Paragraph Style Sheets dialog box → Rules tab
From the Color drop-down menu, choose from a list of colors defined in the Colors dialog box (Server/QuarkXPress Server → Document Controls → Colors). The list includes default colors, custom colors, and spot colors imported with EPS picture files.
**SHADE (FIELD)**
*Edit Paragraph Style Sheets dialog box → Rules tab*
In the **Shade** drop-down menu and field, choose a shade value in 10% increments or enter a value in the field.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0% to 100%</td>
<td>percent</td>
<td>.1</td>
</tr>
</tbody>
</table>

**OPACITY (FIELD)**
*Edit Paragraph Style Sheets dialog box → Rules tab*
In the **Opacity** drop-down menu and field, choose an opacity value in 10% increments or enter a value in the field.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0% to 100%</td>
<td>percent</td>
<td>.1</td>
</tr>
</tbody>
</table>

**EDIT CHARACTER STYLE SHEET (DIALOG BOX)**
*Server/QuarkXPress Server → Document Controls → Style Sheets → New → Character*
Use the **Edit Character Style Sheet** dialog box to create or edit a character style sheet.

![Edit Character Style Sheet dialog box](image-url)
NAME (FIELD)
*Edit Character Style Sheet dialog box*
In the Name field, enter a name for a new style sheet or rename an existing style sheet.

KEYBOARD EQUIVALENT (FIELD)
*Edit Character Style Sheet dialog box*
The Keyboard Equivalent field is not relevant to QuarkXPress Server and should be ignored.

BASED ON (DROP-DOWN MENU)
*Edit Paragraph Style Sheet dialog box → General tab*
To specify a style sheet to base your new style sheet on, choose an option from the Based On drop-down menu. The default option is No Style.

Modifications made to a style sheet that serves as the foundation for another style sheet affect both style sheets.

FONT (DROP-DOWN MENU)
*Edit Character Style Sheet dialog box*
To specify a font for the style sheet, choose an option from the Font drop-down menu or enter the first few characters of the name until the system recognizes the font name.

SIZE (DROP-DOWN MENU)
*Edit Character Style Sheet dialog box*
To specify a font size for the style sheet, choose an option from the Size drop-down menu or enter a value in the field.

COLOR (DROP-DOWN MENU)
*Edit Character Style Sheet dialog box*
To specify a font color for the style sheet, choose an option from the Color drop-down menu.

SHADE (DROP-DOWN MENU)
*Edit Character Style Sheet dialog box*
To specify a shade for the style sheet, choose an option from the Shade drop-down menu or enter a percentage value in the field.

OPACITY (DROP-DOWN MENU AND FIELD)
*Edit Character Style Sheet dialog box*
To specify an opacity for the style sheet, choose an option from the Opacity drop-down menu or enter a percentage value in the field.
**SCALE (DROP-DOWN MENU AND FIELD)**

*Edit Character Style Sheet dialog box*

To specify a horizontal or vertical scale for the style sheet, choose **Horizontal** or **Vertical** from the Scale drop-down menu and enter a percentage value in the field.

**TRACK AMOUNT (FIELD)**

*Edit Character Style Sheet dialog box*

In the **Track Amount** field, enter the amount of space between selected characters and words for copyfitting and special typographic effects.

**BASELINE SHIFT (FIELD)**

*Edit Character Style Sheet dialog box*

In the **Baseline Shift** field, enter a value that raises or lowers either text or an anchored box relative to its normal baseline position.

**ENABLE LIGATURES (CHECK BOX)**

*Edit Character Style Sheet dialog box*

To activate standard ligatures for the style sheet, check **Enable Ligatures**.

**TYPE STYLE (AREA)**

*Edit Character Style Sheet dialog box*

Check **Plain** or combinations of the other type styles in the **Type Style** area.

- **Underline** and **Word Underline**, **All Caps** and **Small Caps**, and **Superscript** and **Subscript** are mutually exclusive type styles, so you can apply only one of each pair.

**LANGUAGE (DROP-DOWN MENU)**

*Edit Character Style Sheet dialog box*

To specify a character language for the style sheet, choose an option from the **Language** drop-down menu.

**OPENTYPE STYLES (AREA)**

*Edit Character Style Sheet dialog box*

Click the disclosure triangle at the left of the **OpenType** area to display the various available OpenType styles. These styles might not be available, depending on the font applied. OpenType options are not available in HTML text boxes. Note the following rules:

- **All Small Caps** and **Small Caps** are mutually exclusive.
- **Tabular Lining**, **Proportional Old Styles**, **Proportional Lining**, and **Tabular Old Style** are mutually exclusive.
- **Subscript**, **Superscript**, **Numerator**, and **Denominator** (in the **Position** drop-down menu) are mutually exclusive.
The Colors command (Shift+F12) displays the Colors dialog box, which enables you to create and manage colors. You can also change the way a color traps to other colors.

Default colors can be applied to content in projects using Modifier XTensions software. For more information, see “Modifier XTensions software” in Chapter 4, “XTensions software.”

**DEFAULT COLORS (DIALOG BOX)**

*Server/QuarkXPress Server → Document Controls → Colors*

Use the Colors dialog box to create, edit, duplicate, delete, and specify trapping for default colors. You can also append colors from a QuarkXPress file.

![Default Colors dialog box](image)

- **Cyan, Magenta, Yellow, Black, and White**: You cannot edit or delete these colors.

- **Registration**: You can edit the Registration color, but you cannot delete it. Changing the Registration color only changes the way the color displays on-screen.

**NEW (BUTTON)**

*Default Colors dialog box*

Click New to display the Edit Color dialog box, which enables you to add, create, or name a color. You can create up to 1,000 colors.
**EDIT (BUTTON)**
*Default Colors dialog box*
Click **Edit** to display the **Edit Color** dialog box, which enables you to modify the color selected in the Colors list. You can also double-click a color to display the **Edit Color** dialog box. You cannot edit or delete the following default colors: Cyan, Magenta, Yellow, Black, and White.

**DUPLICATE (BUTTON)**
*Default Colors dialog box*
Click **Duplicate** to create a copy of the color selected in the Colors list. QuarkXPress Server automatically opens the **Edit Color** dialog box so that you can rename and edit the copied color.

**DELETE (BUTTON)**
*Default Colors dialog box*
Click **Delete** to remove the selected colors.

**APPEND (BUTTON)**
*Default Colors dialog box*
The **Append** button lets you import colors from a QuarkXPress project, document, template, or library:

1. Click **Append** to display the **Append Colors** dialog box.
2. Select a QuarkXPress project, document, template, or library and click **Open**. The **Append** dialog box displays. The **Available** column lists all the applicable colors in the source file.
3. Select the colors to import and double-click them, or click on to move them to the **Include** column. To select a range of colors, click the first color and press Shift while you click the last color in the range. To select non-consecutive colors, press Command/Ctrl while you click each color.

**EDIT TRAP (BUTTON)**
*Default Colors dialog box*
Click **Edit Trap** to specify trapping values for any item color relative to any background color. The **Trap Specifications** dialog box displays the specifications of the color selected in the list.

**SAVE (BUTTON)**
*Default Colors dialog box*
Click **Save** to save changes made to any colors.
EDIT COLOR (DIALOG BOX)

Default Color dialog box → New, Edit, or Duplicate

Click New, Edit, or Duplicate in the Default Colors dialog box to display the Edit Color dialog box, which enables you to create or edit a color.

![Edit Color dialog box](image)

**NAME (FIELD)**

*Edit Color dialog box*

In the Name field, enter a name for a new color or rename an existing color.

**MODEL (DROP-DOWN MENU)**

*Edit Color dialog box*

From the Model drop-down menu, choose a color model for creating and editing colors. For example, you can use the HSB or CMYK model to modify a color created in the RGB model. You can also edit a spot color such as a PANTONE, Toyo®, or DIC color using one of the other color definition models, but a spot color edited in this manner no longer matches the originally selected version.

You can choose from among the following options:

- **RGB**: An additive color system, usually used with slide recorders or color video monitors. Red, green, and blue light is mixed to represent colors on a video screen.

- **HSB**: Resembles the manner in which artists mix colors, using hue, saturation, and brightness. Hue describes color pigment; saturation measures the amount of color pigment; and brightness measures the amount of black in a color.

- **LAB**: Also referred to as “LAB color space” or “CIELAB.” A standard three-dimensional model for representing colors. LAB is a color space designed to be independent of differing interpretations imposed by monitor or printer manufacturers. The LAB model used in QuarkXPress Server and QuarkXPress uses the “D50 illuminant” to be consistent with most usage.
• **CMYK**: A subtractive color system and the color model used by professional printers. Cyan, magenta, yellow, and black inks combine to “subtract” from white and thus reproduce most colors.

• **Multi-Ink**: A special model in QuarkXPress Server and QuarkXPress that allows you to create a multi-ink color based on screen percentages of existing process inks or spot colors. Before using this feature, consult your printer or service bureau to make sure that the percentages you choose do not cause ink-coverage problems.

• **PANTONE**: Consists of the PANTONE MATCHING SYSTEM® colors in solid colors for printing on coated stock. The PANTONE MATCHING SYSTEM was designed to specify spot colors. The PANTONE MATCHING SYSTEM prints each color on its own plate when you print separations. Use the PANTONE Color Formula Guide for accurate PANTONE-identified solid color standards for coated and uncoated paper stock. The PANTONE Hexachrome® color system is designed to reproduce colors using six unique PANTONE process inks. This matching system enables you to choose from more than 2,000 ultra high-fidelity colors, which are arranged chromatically. Use the PANTONE Hexachrome Color Selector for accurate PANTONE Hexachrome-identified color standards for coated and uncoated paper stock.

• **TOYO or DIC**: These are spot-color-matching systems popular in Japan.

• **TRUMATCH® and FOCOLTONE®**: These are matching systems that enable you to specify colors that can be built on-press using the four process colors — cyan, magenta, yellow, and black.

• **Hexachrome Uncoated and Hexachrome Coated**: These are hi-fidelity color matching systems from Pantone Inc. that consist of colors printed with six process plates instead of the usual four. Orange and green are added to the CMYK plates to create better impact and increase the range of reproducible colors. Choose Hexachrome colors in your projects only after you have talked to your printer and planned printing a Hexachrome job.

• **Web-safe**: This color model displays in the Model drop-down menu only if the corresponding Color Library files are installed in your “Color” folder.

• **Web Named Colors**: This model enables you to select a Web-safe color using its assigned color name — for example, “Dark Blue.” Not all Web-safe colors are included in the Web Named Colors palette. This color model displays in the Model drop-down menu only if the corresponding Color Library files are installed in your “Color” folder.

**COLOR WHEEL OPTIONS (COLOR SELECTOR)**

_Edit Color dialog box ➔ New, Edit or Duplicate_

If you choose HSB, RGB, LAB, or CMYK from the Model drop-down menu, the color wheel, brightness slider, and numeric sliders display.
You can use the color wheel to specify a color. Click or drag the pointer inside the wheel; a small square indicates the location of the active color. The New field displays this color. The numeric values for the components of the current color are displayed in the fields below the wheel. You can use the numeric fields to make modifications to colors you picked using the color wheel.

Using the brightness slider to the right of the color wheel, you can quickly change the amount of black present in the colors that are accessible through the color wheel. Move the slider downward to add more black.

To define colors without using the color wheel (or after clicking the general area of a color), use the sliders or enter values for each color component in the fields below the wheel.

Black-and-white or grayscale monitors use levels of gray with letters (such as R, G, B) to represent the corresponding color areas of the wheel.

**MULTI-INK OPTIONS (COLOR SELECTOR)**

*Model drop-down menu*

If you choose Multi-Ink from the Model drop-down menu, a list on the right of the dialog box displays all available spot colors and process inks.
• From the Process Inks drop-down menu, choose CMYK process inks or Hexachrome process inks.

Choose Hexachrome after you have spoken to your printer and planned to print a six-color hexachrome job.

• From the Shade drop-down menu, choose a screen percentage from 0%–100% for the color you select in the list. Specify shades for any number of process inks or spot colors in the list to build your own custom multi-ink color.

Before using the Multi-Ink feature, consult with your printer or service bureau to make sure that the percentages you choose do not cause ink-coverage problems.

SWATCHBOOK OPTIONS (COLOR SELECTOR)
Model drop-down menu
If you choose TOYO, DIC, TRUMATCH, FOCOLTONE, HEXACHROME, Web-safe, Web Named Colors, or one of the PANTONE color models from the Model drop-down menu, the corresponding color selector displays.

Color selector containing swatchbook options for the Web Safe Colors model

• Select a color from one of these matching systems or enter the catalog number in the field below the color selector.
• When you enter a catalog number in the field, the color corresponding to that number displays in the color selector and in the New field.
• The name of a specified color automatically displays in the Name field in the upper left corner of the dialog box. The “CV” that follows a PANTONE color number indicates that the selected color is a computer video simulation of the actual PANTONE color.

SPOT COLOR (CHECK BOX)
Edit Color dialog box
Check Spot Color to print the color as a spot color to its own separate printing plate. If you specify a spot color from one of the color selectors, you can uncheck Spot Color to separate the color into cyan, magenta, yellow, and black plates.
As the gamut of CMYK process color is limited, any spot color that you reproduce using process plates looks slightly different from the actual spot ink that you see in a printed swatch book.

**HALFTONE (DROP-DOWN MENU)**

*Edit Color dialog box*

From the Halftone drop-down menu, choose the screen values used when you print a color separation plate that contains a screen for a spot color. A spot color means a color for which Spot Color is checked.

When Spot Color is checked, the Halftone drop-down menu is available. Choose Process Cyan to specify a screen angle of 105°, Process Magenta for 75°, Process Yellow for 90°, and Process Black for 45°. These values might be overridden by values built in to an imagesetter or printer description file. You can also override them using the Angle drop-down menu in the Output tab of the Output Style dialog box (Server/QuarkXPress Server → Document Controls → Output Style).

**NEW/ORIGINAL (AREA)**

*Edit Color dialog box*

The New/Original area displays colors as you create and edit them. The New field displays a new color or an edited version of the chosen color. The Original field is used for comparison; it displays the original color when you are editing an existing color.

**TRAP SPECIFICATIONS (DIALOG BOX)**

*Default Colors dialog box → Edit Trap*

Click Edit Trap in the Colors dialog box to display the Trap Specifications dialog box for a chosen color. Use the Trap Specifications dialog box to specify trapping values for any object color relative to any background color. By specifying Overprint, Knockout, Auto Amount (+) for spreads, Auto Amount (–) for chokes, or Custom trap values in the Trap drop-down menu, you can control the trapping relationships for every color except White and Registration.

![Trap Specifications dialog box](image-url)
Color-specific trapping values you specify in the Trap Specifications dialog box directly affect color relationships and override all default trapping preferences.

A spread occurs when items with a lighter color enlarge slightly to overlap a darker background color. A choke occurs when items with a darker color are trapped by a slight reduction in the size of the “knocked out” area in a lighter background color.

**BACKGROUND COLOR (COLUMN)**

Trap Specifications dialog box

The Background Color column displays all the colors defined for the project, with the exception of White, Registration, and the object color. When the object color is placed against a background of more than one color with which the object color has conflicting trapping relationships or against a color QuarkXPress is unable to identify, the program traps according to the value specified for the Indeterminate background color.

**TRAP (DROP-DOWN MENU)**

Trap Specifications dialog box

The Trap drop-down menu determines the trapping relationship when the selected Background Color occurs behind the object color selected in the Default Colors dialog box. The Trap column displays the current setting. Entries different from the default values are marked with an asterisk (*).

- The Default option works like the Auto Amount (+/-) settings, but when Default is chosen, an algorithm determines which colors choke, which colors spread, and which colors overprint or knock out. The amount of a choke or spread is based on the Auto Amount value specified in the Trapping pane of the Preferences dialog box (QuarkXPress Server → Preferences). However, when Default is chosen, black always overprints and white always knocks out.

- The Overprint option specifies that the object color named in the dialog box title overprints the selected background color in all instances where the shade value of the object color is greater than the percentage entered in the Overprint Limit field of the Trapping pane of the Preferences dialog box (QuarkXPress Server → Preferences).
Even with **Overprint** specified, overprinting occurs only when an object color has a shade value greater than the **Overprint Limit** value specified in the **Trapping** pane of the **Preferences** dialog box (QuarkXPress Server → Preferences).

- The **Knockout** option specifies that the object color named in the dialog box title knocks out the selected background color using no trapping.
- The **Auto Amount (+)** option assigns the default spread value (the value specified in the **Auto Amount** field of the **Trapping** pane of the **Preferences** dialog box) to the object color named in the dialog box title.
- The **Auto Amount (–)** option assigns the default choke value (the negative of the value specified in the **Auto Amount** field of the **Trapping** pane of the **Preferences** dialog box) to the object color named in the dialog box title.
- The **Custom** option displays the **Custom** dialog box, which enables you to specify a custom trapping value for the object and background color. Enter a value and click **OK**. A negative value causes the background color to choke. A positive value causes the object color to spread. A value of zero knocks out the object from the selected background color with no trapping.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MEASUREMENT SYSTEM</th>
<th>SMALLEST INCREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>±36pt</td>
<td>points</td>
<td>.001</td>
</tr>
</tbody>
</table>

If you specify a negative **Custom** value between the object color named in the dialog box title and the **Indeterminate** background color, text to which the object color is applied is not choked; instead, it is knocked out of the background without any trapping.

**DEPENDENT/INDEPENDENT (DROP-DOWN MENU)**

*Trap Specifications* dialog box

The **Dependent Traps/Independent Traps** drop-down menu determines whether the **Trap** and **Reverse** drop-down menu settings directly affect each other. The **Reverse** column indicates how trapping occurs when the selected **Background Color** takes on the role of object color and vice versa.

- Choose **Dependent Traps** for QuarkXPress Server to calculate a reverse trap value automatically.
- Choose **Independent Traps** to specify a custom reverse trap value.
**REVERSE (DROP-DOWN MENU)**

*Trap Specifications dialog box*

The **Reverse** drop-down menu determines how trapping occurs when the selected **Background Color** takes on the role of object color, and the color identified in the name of the dialog box takes on the role of background color. The **Reverse** value is calculated automatically when you choose **Dependent Traps**. If you change the **Reverse** value when **Dependent Traps** is chosen, the corresponding opposite trap is calculated automatically.

The **Reverse** column displays the current setting. When an entry is different from the default values, it is marked with an asterisk (*). The options available in the **Reverse** drop-down menu are the same as those in the **Trap** drop-down menu.

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**H&JS**

Hyphenation and justification specifications (H&Js) are sets of automatic hyphenation rules and justification settings that you can apply to paragraphs. The **H&Js** command (Server/QuarkXPress Server → Document Controls → H&Js) displays the **H&Js** dialog box, which enables you to create and manage hyphenation and justification specifications. You apply hyphenation and justification specifications to selected paragraphs using the **H&J** drop-down menu in the **Formats** tab of the **Edit Paragraph Style Sheet** dialog box. Hyphenation and justification specifications are included in paragraph style sheets.

Default H&Js come into play only when you create a project in QuarkXPress Server. You cannot directly create projects in the QuarkXPress Server user interface, but client requests can trigger the creation of projects.

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**DEFAULT H&JS (DIALOG BOX)**

Server/QuarkXPress Server → Document Controls → H&Js

Use the **H&Js** dialog box to create, edit, duplicate, and delete the current hyphenation and justification specifications. You can also append hyphenation and justification specifications from another project.
The top list displays the available hyphenation and justification specifications; the bottom list displays the specifications for the selected hyphenation and justification.

**Default H&Js dialog box**

**H&JS (LIST)**

**Default H&Js dialog box**

When no projects are open, the H&J list displays all default hyphenation and justification specifications.

All projects contain the **Standard** hyphenation and justification specification. By default, **Standard** is the hyphenation and justification specification for the **Normal** paragraph style sheet. The default **Standard** hyphenation and justification specification is defined as follows:

- **Auto Hyphenation**: Checked
- **Smallest Word**: 6
- **Minimum Before**: 3
- **Minimum After**: 2
- **Break Capitalized Words**: Unchecked
- **Hyphens in a Row**: Unlimited
- **Hyphenation Zone**: 0"
- **Space**: 85% Min., 110% Opt., 250% Max.
- **Char**: 0% Min., 0% Opt., 4% Max.
- **Flush Zone**: 0"
- **Single Word Justify**: Checked
NEW (BUTTON)
Default H&Js dialog box
The New button displays the Edit Hyphenation & Justification dialog box, which enables you to create a hyphenation and justification specification. You can create up to 1,000 default or project-specific hyphenation and justification specifications. Use the Edit Hyphenation & Justification dialog box to name and define a hyphenation and justification specification.

EDIT (BUTTON)
Default H&Js dialog box
The Edit button displays the Edit Hyphenation & Justification dialog box for the hyphenation and justification specification selected in the H&J list. Use the Edit Hyphenation & Justification dialog box to modify a hyphenation and justification specification’s name and definition. You can also double-click a hyphenation and justification specification to display the Edit Hyphenation & Justification dialog box.

DUPLICATE (BUTTON)
Default H&Js dialog box
The Duplicate button creates a copy of the hyphenation and justification specification selected in the H&J list. QuarkXPress Server automatically opens the Edit Hyphenation & Justification dialog box so that you can rename and edit the copied hyphenation and justification specification.

DELETE (BUTTON)
Default H&Js dialog box
The Delete button removes the selected hyphenation and justification specifications. If the hyphenation and justification specification was used in the active project, an alert enables you to choose a replacement hyphenation and justification specification.

APPEND (BUTTON)
Default H&Js dialog box
Click Append to display the Append H&Js dialog box. Use the Append H&J dialog box to import hyphenation and justification specifications from a QuarkXPress project, document, template, or library.

Selecting a file in the dialog box and clicking Open displays the Append H&Js dialog box. The Append H&Js dialog box enables you to import H&Js selectively from source documents, projects, templates, or libraries. Click the H&Js tab to choose from a list of H&Js. The Available column lists all the applicable H&Js in the source file. Select the H&Js to import into the target project and double-click them, or click to move them to the Include column. To select a range of H&Js, click the first H&J and press Shift while you click the last H&J in the range. To select non-consecutive H&Js, press Command/Ctrl while you click each H&J.
SAVE (BUTTON)
Default H&Js dialog box
The Save button saves changes made to any hyphenation and justification specifications in the H&Js dialog box.

EDIT HYPHENATION & JUSTIFICATION (DIALOG BOX)
Default H&Js dialog box → New, Edit or Duplicate
Click New, Edit, or Duplicate in the H&Js dialog box to display the Edit Hyphenation & Justification dialog box, which enables you to create or edit a hyphenation and justification specification.

Edit Hyphenation & Justification dialog box

NAME (FIELD)
Edit Hyphenation & Justification dialog box
In the Name field, enter a name for a new hyphenation and justification specification, or rename an existing hyphenation and justification specification.

AUTO HYPHENATION (AREA)
Edit Hyphenation & Justification dialog box
Use the Auto Hyphenation area to determine the way QuarkXPress Server performs automatic hyphenation.

• Check Auto Hyphenation to hyphenate paragraphs automatically. It is checked by default.

• The Smallest Word field specifies the minimum number of characters a word must contain to be hyphenated. Enter a value from 3 to 20. The default setting is 6.

• The Minimum Before field specifies the smallest number of characters that must precede an automatic hyphen. Enter a value from 1 to 6. The default setting is 3.
• The **Minimum After** field specifies the smallest number of characters that must follow an automatic hyphen. Enter a value from 2 to 8. The default setting is 2.

• Check **Break Capitalized Words** to hyphenate words that start with an upper-case character (for example, proper nouns and the first words of sentences). It is unchecked by default.

The **Auto Hyphenation** controls do not affect manual hyphenation (the use of manually inserted hyphens and discretionary hyphens to control word breaks and text flow within projects).

**HYPHENS IN A ROW (DROP-DOWN MENU & FIELD)**

*Edit Hyphenation & Justification dialog box*

In the **Hyphens in a Row** field, enter the maximum number of consecutive lines that can end in manually or automatically hyphenated words. You can enter any value from 0 to 7. If you do not want to limit the number of consecutive lines that end with a hyphen, enter “0” or choose **unlimited** from the field's drop-down menu. The default setting is **unlimited**.

**HYphenation Zone (FIELD)**

*Edit Hyphenation & Justification dialog box*

Enter a value in the **Hyphenation Zone** field, to define the area within which hyphenation (automatic or manual) can occur. The **Hyphenation Zone** is measured from the right indentation to the end of a line of text.

• When you specify a **Hyphenation Zone** greater than 0", QuarkXPress Server hyphenates a word only when the previous word ends before the **Hyphenation Zone** and an acceptable hyphenation point falls within the **Hyphenation Zone**. **Hyphenation Zone** values apply only to non-justified text.

• A **Hyphenation Zone** value of 0" indicates a no **Hyphenation Zone**. In this case, QuarkXPress Server either hyphenates a word according to the other hyphenation criteria or wraps it to the next line if it does not fit completely on the line. This is the default setting.

**JUStification Method (AREA)**

*Edit Hyphenation & Justification dialog box*

Justified lines of text extend from the left to the right indentation within a column or box. Lines are justified by adding or removing the spacing between words and characters. The values in the **Space** and **Char** fields determine how word space and characters are adjusted to justify a line. The **Opt**. (Mac OS) or **Optimum** (Windows) spacing values apply to all text.

**SPACE (FIELDS)**

*Edit Hyphenation & Justification dialog box*

Use the **Space** fields to enter the amount of space QuarkXPress Server can add or remove between words in lines of justified text.
• Enter percentages of the normal interword space for the font and size in use in the **Min./Minimum**, **Opt./Optimum**, and **Max./Maximum** fields.

• Enter the number of lines of text for justifying in the **Opt./Optimum** value. If the application is unable to justify text using the **Opt./Optimum** value, it varies word spacing within the range specified in the **Min./Minimum** and **Max./Maximum** fields.

• QuarkXPress Server never spaces words closer than the **Min./Minimum** value, but the application might exceed the **Max./Maximum** value if there is no other way to justify a line.

• For non-justified text, QuarkXPress Server always spaces words according to the **Opt./Optimum** value.

**CHARACTER (FIELDS)**

*Edit Hyphenation & Justification dialog box*

Use the **Char** fields to enter the amount of space QuarkXPress Server can add or remove between the characters in lines of justified text.

• Enter percentages of an en space for the current font size in the **Min./Minimum**, **Opt./Optimum**, and **Max./Maximum** fields.

• Enter the space characters for justifying lines of text in the **Opt./Optimum** fields. If the application is unable to justify text using the **Opt./Optimum** value, it varies character spacing within the range specified in the **Min./Minimum** and **Max./Maximum** fields.

• QuarkXPress Server never spaces characters closer than the **Min./Minimum** value, but the application might exceed the **Max./Maximum** value if there is no other way to justify a line.

• For non-justified text, QuarkXPress Server always spaces characters according to the **Opt./Optimum** value.

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By default, QuarkXPress Server defines an en space as the width of a zero in the current font. However, if you check **Standard Em Space** in the **Character** pane of the **Preferences** dialog box (**QuarkXPress Server → Preferences**), QuarkXPress Server uses half the width of the current font size for the en space (for example, 24-point text has a 12-point en space).

**FLUSH ZONE (FIELD)**

*Edit Hyphenation & Justification dialog box*

Use the **Flush Zone** field to control whether the last line of text in a justified paragraph automatically extends to the right indentation. When the last line of a justified paragraph ends within the **Flush Zone** (measured from the right indentation), space is added between characters and words so that the text extends from the left to the right indentation. If the last line of a paragraph does not fall within the specified **Flush Zone** (the text ends to the left of the Flush Zone), the last line is not justified.
SINGLE WORD JUSTIFY (CHECK BOX)

Edit Hyphenation & Justification dialog box

Check Single Word Justify to specify that a single word alone on a line in a justified paragraph extends from the left indentation to the right indentation. When Single Word Justify is unchecked, single words are not justified.

OUTPUT STYLES

The Output Styles command displays the Output Styles dialog box, which enables you to create and manage custom output styles. An output style is a group of print settings that you implement at output. Using output styles eliminates the need to re-create complex or frequently used print settings every time you print. Output styles are available when rendering a project in EPS, PDF, PPML, and PostScript format.

When QuarkXPress Server renders a project, any output style that was applied by QuarkXPress is overridden. If the client specifies an output style in the request, that output style is used; otherwise, the default QuarkXPress Server output style is applied instead.

OUTPUT STYLES (DIALOG BOX)

Server/QuarkXPress Server → Document Controls → Output Styles

Use the Output Styles dialog box to create, edit, duplicate, and delete output styles. You can also import and export output styles. You can select output styles from the top list of this dialog box, which displays the available output styles; the bottom list displays the attributes of the selected output style.

Output Styles dialog box

OUTPUT STYLES (LIST)

Output Styles dialog box

The Output Styles list displays all output styles. Output styles are always created as default settings for the application and never for the project.
NEW (DROP-DOWN BUTTON)
Output Styles dialog box
To create an output style, choose an option from the New drop-down button: PDF, Print, PPML, or EPS. Depending on the option you choose, the Edit PDF Style, Edit Print Style, Edit PPML Style, or Edit EPS style dialog box displays. You can create up to 1,000 output styles.

EDIT (BUTTON)
Output Styles dialog box
Click Edit to display the Edit Output Style dialog box for the output style selected in the Output Styles list. Use the Edit Output Style dialog box to modify an output style’s name and definition. You can also double-click an output style to display the Edit Output Style dialog box.

DUPLICATE (BUTTON)
Output Styles dialog box
Click Duplicate to create a copy of the selected output style. QuarkXPress Server opens the Edit Output Style dialog box so that you can rename and edit the copied output style.

DELETE (BUTTON)
Output Styles dialog box
Click Delete to remove the selected output styles. You cannot delete the Default output style.

IMPORT (BUTTON)
Output Styles dialog box
Click Import to import an output style file that you have created using the Export button. The Import Output Styles dialog box displays; use this dialog box to select an output style file to import.

EXPORT (BUTTON)
Output Styles dialog box
To export the selected output styles to a file, click Export. In the dialog box that displays, specify the name and the location for the new output styles file. Click Save to complete the export.

SAVE (BUTTON)
Output Styles dialog box
Click Save to save changes made to any output styles and close the Output Styles dialog box.

EDIT EPS STYLE (DIALOG BOX)
Output Styles dialog box → New, Edit, or Duplicate
Use the the Edit EPS Style dialog box to create or edit EPS output styles. To display the Edit EPS Style dialog box, choose EPS from the New drop-down button or click Edit or Duplicate in the Output Styles dialog box.
Edit EPS Style dialog box

**EPS STYLE (FIELD)**

*Edit EPS Style dialog box*

In the EPS Style field, enter a name for a new EPS output style or rename an existing EPS output style.

**FORMAT (DROP-DOWN MENU)**

*Edit EPS Style dialog box*

Use the Format drop-down menu to indicate which format EPS files should be rendered in:

- **Standard EPS**: Choose this option to create single-file EPS files.
- **Multiple File DCS**: Choose this option to create multiple-file DCS files.
- **Single File DCS**: Choose this option to create single-file DCS files.

**PANES**

*Edit EPS Style dialog box*

The Edit EPS Style dialog box includes the following panes:

- The General pane
- The Color pane
- The Marks pane
- The Fonts pane
- The Bleed pane
- The Transparency pane
- The OPI pane
- The JDF pane
- The Advanced pane
- The Summary pane
GENERAL (PANE)

Edit EPS Style dialog box
Use the General pane to set scaling, preview, and other general options for EPS output.

SCALE (FIELD)

Edit EPS Style dialog box → General pane
Enter a percentage value in the Scale field to specify the dimensions of your EPS image.

PREVIEW (DROP-DOWN MENU)

Edit EPS Style dialog box → General pane
Choose an option from the Preview drop-down menu to create a preview. On Mac OS, choose PICT or TIFF to create a screen preview, or choose None to exclude the preview. On Windows, choose TIFF to create a screen preview of the EPS file, or choose None to exclude the preview.

DATA (DROP-DOWN MENU)

Edit EPS Style dialog box → General pane
For pages that contain bitmap (raster) data, choose an option from the Data drop-down menu to control how the data is included in the EPS file. Choose from Binary, ASCII, or Clean 8-bit.

EXCLUDE PAGE WHITE (CHECK BOX)

Edit EPS Style dialog box → General pane
Check Exclude Page White to make the page area transparent. If Exclude Page White is unchecked, everything within the EPS file’s bounding box will be opaque.

SPREAD (CHECK BOX)

Edit EPS Style dialog box → General pane
Check Spread to generate an EPS file of the entire spread where the specified page is located.
COLOR (PANE)

*Edit EPS Style dialog box*

Use the **Color** pane to specify color options for EPS rendering.

![Edit EPS Style dialog box displaying Color pane]

**SETUP (DROP-DOWN MENU)**

*Edit EPS Style dialog box ➔ Color pane*

Choose a color setup from the **Setup** drop-down menu. The options in this drop-down menu depend on the option selected in the **Format** drop-down menu.

If **Format** is set to **Standard EPS**, choose one of the following options:

- The **Grayscale** option produces an EPS file that depicts colors by using shades of gray.
- The **Composite RGB** option creates an EPS file that uses composite RGB color.
- The **Composite CMYK** option creates an EPS file that uses composite CMYK color.
- The **Composite CMYK and Spot** option enables you to create an EPS file with composite PostScript. You can then output that file using a device that supports in-RIP separations.
- The **As Is** option enables you to describe colored items from their source color space when you print the EPS file to a PostScript composite color device.

If **Format** is set to **Multiple File DCS** or **Single File DCS**, choose one of the following options:

- The **Process and Spot** option includes both process and spot colors.
- The **Convert to Process** option converts spot colors to process colors.

To include or suppress individual plates, check or uncheck in the Include column next to plate colors.

The **Setup** drop-down menu also contains all the custom output setups created by you in the **Default Output Setups** dialog box (QuarkXPress Server ➔ Document Options ➔ Color Setups ➔ Output).
MARKS (PANE)

Edit EPS Style dialog box

Use the Marks pane to include crop marks and registration marks in the output. Crop marks are short vertical and horizontal lines printed outside the page’s final trim size, indicating where to cut the page. Registration marks are symbols that are used to align overlaying plates.

MODE (DROP-DOWN MENU)

Edit EPS Style dialog box → Marks pane

To include crop marks and registration marks on every page, choose Centered or Off Center from the Mode drop-down menu. When you choose Centered or Off Center, the Width, Length, and Offset fields are available.

WIDTH, LENGTH, OFFSET (FIELDS)

Edit EPS Style dialog box → Marks pane

Values in the Width and Length fields specify the width and length of the crop marks. Values in the Offset field specify the distance of the crop marks from the page edge.

FONTS (PANE)

Edit EPS Style dialog box

Use the Fonts pane to specify whether the fonts will be embedded in the exported EPS file:
DOWNLOAD ALL FONTS (CHECK BOX)
*Edit EPS Style dialog box ➔ Fonts pane*
To embed all the fonts in exported EPS files, check **Download All Fonts**. To embed no fonts in EPS files, uncheck this box.

BLEED (PANE)
*Edit EPS Style dialog box*
Use the **Bleed** pane to define different bleed values for each edge of the page, or to use layout items such as boxes and lines to define the bleed. Bleed settings apply to every page in the layout.

The **Bleed** pane displays only if Custom Bleeds XTensions software is loaded. For more information, see Chapter 4, “XTensions software.”

BLEED TYPE (DROP-DOWN MENU AND FIELDS)
*Edit EPS Style dialog box ➔ Bleed pane*
To create a bleed by defining how far the bleed extends from the layout page edges, choose **Symmetric** or **Asymmetric** from the **Bleed Type** drop-down menu:

- To create a bleed that extends the same distance from each page edge, choose **Symmetric** and enter a value in the **Amount** field to specify the bleed’s distances.
- To create a bleed with different distances from each page edge, choose **Asymmetric** and enter values in the **Top**, **Bottom**, **Left**, and **Right** fields to specify the bleed distances.
TRANSPARENCY (PANE)

*Edit EPS Style dialog box*

Use the **Transparency** pane to specify how transparency is handled at export.

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*Edit EPS Style dialog box displaying Transparency pane*

Flattening is triggered by the following features:

- Opacity
- Alpha channel masking
- Blends and grayscale pictures that use the None color
- Line-art TIFF pictures
- Bitmap frames

**TRANSPARENCY FLATTENING RESOLUTION (DROP-DOWN MENU AND FIELD)**

*Edit EPS Style dialog box ➔ Transparency pane*

To specify a resolution for flattened portions of the page, choose a value from the **Transparency Flattening Resolution** drop-down menu.

**IGNORE TRANSPARENCY FLATTENING (CHECK BOX)**

*Edit EPS Style dialog box ➔ Transparency pane*

To print items without taking their opacity values into account, check **Ignore Transparency Flattening**. The items will be rendered as 100% opaque items regardless of the opacity value applied. This option can be useful for troubleshooting transparency-related output problems.

**OPI (PANE)**

*Edit EPS Style dialog box*

Use the **OPI** pane to control settings for Open Prepress Interface (OPI). You can use this pane to specify whether TIFF and EPS are included in output or OPI comments are substituted during output.

The **OPI** pane displays only if OPI XTensions software is loaded. For more information, see Chapter 4, “XTensions software.”
**Edit EPS Style** dialog box displaying **OPI pane**

**OPI ACTIVE (CHECK BOX)**
Edit EPS Style dialog box → OPI pane
Check **OPI Active** if you are using an OPI server.

**TIFF OPTIONS (AREA)**
Edit EPS Style dialog box → OPI pane
Use the controls in the **TIFF Options** area to control how TIFF pictures are handled in an OPI workflow.

**INCLUDE IMAGES (CHECK BOX)**
Edit EPS Style dialog box → OPI pane → TIFF Options area
Check **Include Images** to include TIFF pictures in the output stream.

**OPI ACTIVE (CHECK BOX)**
Edit EPS Style dialog box → OPI pane
Check **Low Resolution** to include the low-resolution TIFF images used in the layout, rather than the high-resolution versions.

**EPS OPTIONS (AREA)**
Edit EPS Style dialog box → OPI pane
Use the controls in the **EPS Options** area to control how EPS pictures are handled in an OPI workflow.

**INCLUDE IMAGES (CHECK BOX)**
Edit EPS Style dialog box → OPI pane → TIFF Options area
Check **Include Images** to include EPS pictures in the output stream. If a high-resolution file cannot be found for an EPS picture, the screen preview is substituted.

**JDF (PANE)**
Edit EPS Style dialog box
Use the JDF pane to specify whether to save a JDF file from the project’s Job Jackets structure at rendering.
OUTPUT JDF (CHECK BOX)
Edit EPS Style dialog box ➔ JDF pane
To include JDF output when this style is used, check Output JDF.

INCLUDE JOB JACKET CONTACT (DROP-DOWN MENU)
Edit EPS Style dialog box ➔ JDF pane
The Include Job Jacket Contact control is not relevant to QuarkXPress Server and should be ignored.

ADVANCED (PANE)
Edit EPS Style dialog box
In the Advanced pane, you can set the level of PostScript used in embedded EPS files.

POSTSCRIPT LEVEL (DROP-DOWN MENU)
Edit EPS Style dialog box ➔ Advanced pane
To set the level of PostScript used in embedded EPS files, choose an option from the PostScript Level drop-down menu.
SUMMARY (PANE)

*Edit EPS Style dialog box*

The **Summary** pane displays a summary of the settings in the other panes.

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**Edit EPS Style** dialog box displaying **Summary** pane

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EDIT PPML STYLE (DIALOG BOX)

*Output Styles dialog box → New, Edit, or Duplicate*

Use the **Edit PPML Style** dialog box to create or edit PPML output styles. To display the **Edit PPML Style** dialog box, choose **PPML** from the **New** drop-down button or click **Edit** or **Duplicate** in the **Output Styles** dialog box.

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**Edit PPML Style** dialog box
PPML STYLE (FIELD)
Edit PPML Style dialog box
In the PPML Style field, enter a name for a new PPML output style or rename an existing PPML output style.

CONSUMER (DROP-DOWN MENU)
Edit PPML Style dialog box
Choose the target PPML consumer from the Consumer drop-down menu.

PANES
Edit PPML Style dialog box
The Edit PPML Style dialog box includes the following panes:

- The Device pane
- The Pages pane
- The Colors pane
- The Pictures pane
- The Marks pane
- The Bleed pane
- The JDF pane
- The Advanced pane
- The Summary pane

DEVICE (PANE)
Edit PPML Style dialog box
Use the Device pane to control device-specific settings, including PostScript Printer Description (PPD) selection and page positioning.

Edit PPML Style dialog box displaying Device pane
**PPD (DROP-DOWN MENU)**
*Edit PPML Style dialog box → Device pane*
To indicate the output device type, choose a PPD file from the PPD drop-down menu. When you specify a PPD, the Paper Size, Width, and Height fields are automatically filled with the default information (if any) supplied by the PPD. If you choose a PPD for an imagesetter, the Page Gap and Paper Offset fields become available. If you do not have the right PPD, choose a similar built-in, generic PPD.

**PAPER SIZE (DROP-DOWN MENU)**
*Edit PPML Style dialog box → Device pane*
To specify the media size used by your printer, choose a size from the Paper Size drop-down menu.

**WIDTH, HEIGHT (DROP-DOWN MENUS)**
*Edit PPML Style dialog box → Device pane*
To specify the width and height of custom media supported by your output device, choose Custom from the Paper Size drop-down menu and enter values in the Width and Height fields.

**PAGE GAP (FIELD)**
*Edit PPML Style dialog box → Device pane*
For imagesetters only: Enter a value in the Page Gap field to specify the amount of space between pages of the layout as the pages print on the roll.

**PAPER OFFSET (FIELD)**
*Edit PPML Style dialog box → Device pane*
For imagesetters only: Enter a value in the Paper Offset field to specify the distance that the left edge of the page will be offset (or inset) from the left edge of the roll media. For example, if you want a layout page that is 6 inches wide to print centered on a 12-inch-wide roll of RC paper, specify 3.0” in the Paper Offset field.

The sum of values entered into the Width and Paper Offset fields should not be greater than the media width defined for the imagesetter. Values entered into the Height field should not be greater than the maximum media height that the imagesetter can support. When sending output to a continuous-feed or nondrum imagesetter, use the Automatic setting in the Height field.

**POSITION (DROP-DOWN MENU)**
*Edit PPML Style dialog box → Device pane*
To position your layout on the selected output media, choose an option from the Position drop-down menu. Note that settings in the Position drop-down menu can be applied when printing to PostScript or non-PostScript devices.

- **Left Edge** positions the top left of the page on the top left of the selected media.
- **Center** centers the page horizontally and vertically in the imageable area of the selected output media.
• **Center Horizontal** centers the page left-to-right in the imageable area.

• **Center Vertical** centers the page top-to-bottom in the imageable area.

**RESOLUTION (FIELD)**
*Edit PPML Style dialog box → Device pane*

The default resolution for the selected PPD is entered automatically in the Resolution field. To specify a resolution other than the default value, enter a dots per inch (dpi) value in the Resolution field, or choose an option from the Resolution drop-down menu.

**NEGATIVE PRINT (CHECK BOX)**
*Edit PPML Style dialog box → Device pane*

To print negative page images, check **Negative Print**. When **Negative Print** is checked, flipping a page horizontally or vertically will produce right-reading, emulsion-down film output, which is a common standard for commercial printers in the United States. For right-reading emulsion-down, negative film output, use the Pages pane to choose **Horizontal** or **Vertical** from the Page Flip drop-down menu, and then check **Negative Print** in the Device pane. This produces output where type reads correctly (from left to right) when the emulsion of the film is facing down.

**POSTSCRIPT ERROR HANDLER (CHECK BOX)**
*Edit PPML Style dialog box → Device pane*

To receive printed PostScript error reporting from QuarkXPress Server, check **PostScript Error Handler**. In addition to providing PostScript error handling information, the PostScript Error Handler utility provides information about where on a page the PostScript error occurred. If a PostScript error occurs during the printing of a QuarkXPress item, the utility prints the page containing the QuarkXPress items that were handled successfully up to the point of the error. The utility then prints an error report that contains the following information:

• The bounding box of the item in which the error occurred. This box is identified by a black border and a 50% black background.

• A message at the top left of the page identifies the type of item that caused the error. Lay the error report on top of the partially printed page to isolate the offending item. The bounding box on the error report indicates the location of the object that is causing the error.

The PostScript Error Handler is designed only for PostScript printing. The PostScript Error Handler will append its report to any other PostScript error reporting utilities you might be using.
PAGES (PANE)

*Edit PPML Style dialog box*

Use the Pages pane to specify various methods of rendering pages.

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**ORIENTATION (BUTTONS)**

*Edit PPML Style dialog box ➔ Pages pane*

To specify whether output should be rendered in portrait or landscape mode, click Portrait or Landscape.

**INCLUDE BLANK PAGES (CHECK BOX)**

*Edit PPML Style dialog box ➔ Pages pane*

To include blank pages in the output, check Include Blank Pages.

**PAGE FLIP (DROP-DOWN MENU)**

*Edit PPML Style dialog box ➔ Pages pane*

To flip the output vertically or horizontally, choose an option from the Page Flip drop-down menu: None, Horizontal, Vertical, or Horizontal & Vertical. When you choose Horizontal & Vertical, the image is right-reading, but the page feeds in the opposite direction of the None setting.

**PAGE TILING (DROP-DOWN MENU)**

*Edit PPML Style dialog box ➔ Pages pane*

To print a large layout in sections (tiles), choose an option from the Page Tiling drop-down menu. When you specify tiling, QuarkXPress Server renders portions of each layout page in two or more overlapping tiles that create the complete page when laid side by side. QuarkXPress Server prints tickmarks and location information on each tile to aid you in assembling them.

- To control the way in which a page is tiled by positioning the ruler origin, choose Manual.
- To have QuarkXPress Server determine the number of tiles needed to print each page based on the layout size, the media size, whether or not Absolute Overlap is checked, and the value in the Overlap field, choose Automatic.
OVERLAP (FIELD)
Edit PPML Style dialog box ➔ Pages pane
This field is available only if Page Tiling is set to Automatic. The value entered in the Overlap field is the amount QuarkXPress Server will use to extend the page as needed to create the tile. The default overlap is 3”.

ABSOLUTE OVERLAP (CHECK BOX)
Edit PPML Style dialog box ➔ Pages pane
This field is available only if Page Tiling is set to Automatic. When Absolute Overlap is checked, QuarkXPress Server will use only the value in the Overlap field when extending the page to create the tile. If Absolute Overlap is unchecked, QuarkXPress Server will use at least the amount in the Overlap field when creating the tile, but it might use a larger amount if necessary. Do not check Absolute Overlap if you want your layout centered on the final assembled tiles.

COLORS (PANE)
Edit PPML Style dialog box
Use the Colors pane to specify whether output will be created in composite format or as separations.

MODE (DROP-DOWN MENU)
Edit PPML Style dialog box ➔ Colors pane
Choose a color mode from the Mode drop-down menu:
• Choose Separations to generate output with color separations.
• Choose Composite to create composite output.

SETUP (DROP-DOWN MENU)
Edit PPML Style dialog box ➔ Colors pane
Choose a color setup from the Setup drop-down menu. The options in this drop-down menu depend on the option selected (Separations or Composite) in the Mode drop-down menu.
For **Separations** mode, choose one of the following options from the **Setup** drop-down menu:

- The **Convert to Process** option converts all colors in the file to process colors and produces process plates.
- The **Process and Spot** option produces plates for process and spot colors used in the layout.
- The **In-RIP Separations** option prints all process and spot color plates. The output is in composite format, but the PostScript file to be output contains separations information.

For **Composite** mode, choose one of the following options from the **Setup** drop-down menu:

- The **Grayscale** option produces output that depicts colors by using shades of gray.
- The **Composite CMYK** option creates output that uses composite CMYK color.
- The **Composite RGB** option creates output that uses composite RGB color.
- The **Composite CMYK and Spot** option enables you to create output with composite PostScript, so that you can send the output to a device that supports in-RIP separations. This option uses DeviceN and supports spot colors.
- The **As Is** option enables you to describe colored items from their source color space when you send the output to a PostScript composite color device.

The **Setup** drop-down menu also contains all the custom output setups created by you in the **Default Output Setups** dialog box (Server/QuarkXPress Server → Document Controls → Color Setups → Output).

**HALFTONES (DROP-DOWN MENU)**
*Edit PPML Style dialog box → Colors pane*

Choose **Conventional** or **Printer** from the **Halftone** drop-down menu:

- The **Conventional** option uses QuarkXPress Server-calculated halftone screen values.
- The **Printer** option uses halftone screen values provided by the selected printer; in this case, QuarkXPress Server does not send halftoning information.

**FREQUENCY (DROP-DOWN MENU)**
*Edit PPML Style dialog box → Colors pane*

The default line frequency for the selected PPD is entered automatically in the **Frequency** field. To specify a line frequency other than the default value, enter a lines per inch (lpi) value in the **Frequency** field, or choose an option from the **Frequency** drop-down menu.
COLORS (LIST)

Edit PPML Style dialog box → Colors pane

The list at the bottom of the Colors pane lists Process Black as the only color used to print your layout when a black-and-white PPD is selected. If a color PPD is selected, the appropriate color plates display in the list. This list provides the following controls:

- **Plate** column: Lets you specify whether to output (check) or suppress (uncheck) each plate.
- **Halftone** column: Lets you view the halftone type for each plate.
- **Frequency** column: Lets you view and change the halftone frequency of each plate.
- **Angle** column: Lets you view and change the screen angle of each plate.
- **Function** column: Lets you view and change the halftone function for each plate.

PICTURES (PANE)

Edit PPML Style dialog box

Use the Pictures pane to specify whether fonts will be embedded in the exported output:

- **Collect** collects picture files and includes them with the PPML output.
- **Embed** embeds picture files in the PPML output.
- **None** does not include picture files in the PPML output.

RESOLUTION (DROP-DOWN MENU AND FIELD)

Edit PPML Style dialog box → Pictures pane

To control the resolution of picture files in PPML output, choose an option from the Resolution drop-down menu:

- **Keep Resolution**: QuarkXPress Server leaves the resolution of picture files unaltered.
- **Downsample to**: QuarkXPress Server determines the average pixel color in an area and replaces the area with a larger single pixel containing the average color.
• **Subsample** to: QuarkXPress selects the center pixel in an area and enlarges that center pixel to replace the area with a single pixel.

• **Bicubic downsample**: QuarkXPress uses a weighted average to determine pixel color. Bicubic downsampling is the slowest but yields the best results.

**EMBED FONTS FOR EPS (CHECK BOX)**

*Edit PPML Style dialog box → Pictures pane*

To embed fonts in EPS content generated during PPML output, check this box.

**MARKS (PANE)**

*Edit PPML Style dialog box*

Use the **Marks** pane to include crop marks and registration marks in the output. Crop marks are short vertical and horizontal lines printed outside the page's final trim size to indicate where to cut the page. Registration marks are symbols that are used to align overlaying plates.

![Edit PPML Style dialog box displaying Marks pane](image)

**MODE (DROP-DOWN MENU)**

*Edit PPML Style dialog box → Marks pane*

To include crop marks and registration marks on every page, choose **Centered** or **Off Center** from the **Mode** drop-down menu. When you choose **Centered** or **Off Center**, the **Width**, **Length**, and **Offset** fields are available.

**WIDTH, LENGTH, OFFSET (FIELDS)**

*Edit Print Style dialog box → Marks pane*

Values in the **Width** and **Length** fields specify the width and length of the crop marks. Values in the **Offset** field specify the distance of the crop marks from the page edge.

**BLEED (PANE)**

*Edit PPML Style dialog box*

Use the **Bleed** pane to define different bleed values for each edge of the page, or to use layout items such as boxes and lines to define the bleed. Bleed settings apply to every page in the layout.

The **Bleed** pane displays only if Custom Bleeds XTensions software is loaded. For more information, see Chapter 4, “XTensions software.”
**BLEED TYPE (DROP-DOWN MENU AND FIELDS)**

*Edit PPML Style dialog box ➔ Bleed pane*

To create a bleed by defining how far the bleed extends from the layout page edges, choose **Symmetric** or **Asymmetric** from the **Bleed Type** drop-down menu:

- To create a bleed that extends the same distance from each page edge, choose **Symmetric** and enter a value in the **Amount** field to specify the bleed's distances.

- To create a bleed with different distances from each page edge, choose **Asymmetric** and enter values in the **Top**, **Bottom**, **Left**, and **Right** fields to specify the bleed distances.

**CLIP AT BLEED EDGE (CHECK BOX)**

*Edit PPML Style dialog box ➔ Bleed pane*

To define whether QuarkXPress Server uses the bleed value to clip items, check **Clip at Bleed Edge**.

**JDF (PANE)**

*Edit PPML Style dialog box*

Use the **JDF** pane to specify whether to save a JDF file from the project’s Job Jackets structure at rendering.

**OUTPUT JDF (CHECK BOX)**

**INCLUDE JOB JACKET CONTACT (DROP-DOWN MENU)**

*Edit PPML Style dialog box ➔ JDF pane*

When you check **Output JDF**, the **Include Job Jacket Contact** drop-down menu becomes available; choose a contact from among the Contact Resources in the project’s Job Jackets structure.
ADVANCED (PANE)

*Edit PPML Style dialog box*

In the **Advanced** pane, you can set the level of PostScript used in embedded EPS files.

![Edit PPML Style dialog box displaying Advanced pane]

**POSTSCRIPT LEVEL (DROP-DOWN MENU)**

*Edit PPML Style dialog box → Advanced pane*

To set the level of PostScript used in embedded EPS files, choose an option from the **PostScript Level** drop-down menu.

SUMMARY (PANE)

*Edit PPML Style dialog box*

The **Summary** pane displays a summary of the settings in the other panes.

![Edit PPML Style dialog box displaying Summary pane]

EDIT PDF STYLE (DIALOG BOX)

*Output Styles dialog box → New, Edit, or Duplicate*

Use the **Edit PDF Style** dialog box to create or edit EPS output styles. To display the **Edit PDF Style** dialog box, choose **PDF** from the **New** drop-down button or click **Edit** or **Duplicate** in the **Output Styles** dialog box.
PDF STYLE (FIELD)

In the PDF Style field, enter a name for a new PDF output style or rename an existing PDF output style.

VERIFICATION (DROP-DOWN MENU)

To create PDF files that adhere to the PDF/X standard, choose an option from the Verification drop-down menu:

- **PDF/X-1a: 2001**: Choose this option to create PDF files that adhere to the PDF/X-1a specification.
- **PDF/X-3: 2002**: Choose this option to create PDF files that adhere to the PDF/X-3 specification.

The PDF/X 1a and PDF/X 3 specifications are subsets of the widely accepted PDF/X standard for print submission. Each PDF/X type contains its own set of restrictions as to what is or is not acceptable in a PDF. The PDF/X 3 standard is a superset of PDF/X-1a (a PDF/X-1a file meets all of the requirements of PDF/X-3), and all of the tools designed to read PDF/X-3 are also able to read PDF/X 1a files. A major distinction between the two is that a PDF/X 3 file can also contain color-managed data.

PANES

The Edit PDF Style dialog box includes the following panes:

- The Pages pane
- The Meta Data pane
• The **Hyperlink** pane
• The **Compression** pane
• The **Color** pane
• The **Fonts** pane
• The **Marks** pane
• The **Bleed** pane
• The **Transparency** pane
• The **OPI** pane
• The **JDF** pane
• The **Summary** pane

**PAGES (PANE)**

*Edit PDF Style dialog box*

Use the **Pages** pane to specify various methods of exporting the layout pages as PDF files:

- To export each spread in the QuarkXPress layout as a separate page in the PDF, check **Spreads**.
- To export each page in the QuarkXPress layout as a separate PDF, check **Export pages as separate PDFs**.
- To export blank pages in the QuarkXPress layout as PDF files, check **Include Blank Pages**.
- To create and embed thumbnails of the pages in the exported PDF, check **Embed Thumbnail**. If you check this option, you can choose **B&W Thumbnail** or **Color Thumbnail** from the corresponding drop-down menu to specify the color of the embedded thumbnails.
META DATA (PANE)
*Edit PDF Style dialog box*
Use the Meta Data pane to specify a Title, Subject, Author, and Keywords to be included in the PDF file’s metadata.

![Edit PDF Style dialog box displaying Meta Data pane](image)

HYPERLINK (PANE)
*Edit PDF Style dialog box*
Use the Hyperlink pane to automatically create PDF hyperlinks for QuarkXPress hyperlinks, lists, and indexes:

![Edit PDF Style dialog box displaying Hyperlink pane](image)

**INCLUDE HYPERLINKS (CHECK BOX)**
*Edit PDF Style dialog box* → Hyperlink pane
To include hyperlinks in the PDF file, check Include Hyperlinks.
**EXPORT LINKS AS HYPERLINKS (CHECK BOX)**
*Edit PDF Style dialog box → Hyperlink pane*
To convert lists into hyperlinks, check **Export Lists as Hyperlinks**.

**EXPORT INDEXES AS HYPERLINKS (CHECK BOX)**
*Edit PDF Style dialog box → Hyperlink pane*
To convert index entries into hyperlinks, check **Export Indexes as Hyperlinks**.

**EXPORT LISTS AS BOOKMARKS (CHECK BOX)**
*Edit PDF Style dialog box → Hyperlink pane*
To change lists into PDF bookmarks, check **Export Lists as Bookmarks**.

**APPEARANCE (AREA)**
*Edit PDF Style dialog box → Hyperlink pane*
The **Appearance** area enables you to specify how the PDF file’s hyperlinks will display on screen.

**FRAME (DROP-DOWN MENU)**
*Edit PDF Style dialog box → Hyperlink pane*
Choose **Invisible** or **Visible** from the **Frame** drop-down menu to indicate whether a frame will display around each hyperlink. When **Visible** is chosen, the **Width**, **Color**, and **Style** drop-down menus are available.

**HIGHLIGHT (DROP-DOWN MENU)**
*Edit PDF Style dialog box → Hyperlink pane*
To specify how the hyperlink will display when it is clicked in the PDF file, use the **Highlight** drop-down menu:

- Choose **None** to leave hyperlinks unchanged.
- Choose **Invert** to display hyperlinks in a different color when clicked. The second color will be the complementary (opposite) color on the color wheel.
- Choose **Outline** to display a black outline around the hyperlink text when it is clicked.
- Choose **Inset** to create a three-dimensional button effect when the hyperlink is clicked.

**WIDTH (DROP-DOWN MENU)**
*Edit PDF Style dialog box → Hyperlink pane*
To specify the width of hyperlink frames, choose **Thin**, **Medium**, or **Thick** from the **Width** drop-down menu.

**COLOR (DROP-DOWN MENU)**
*Edit PDF Style dialog box → Hyperlink pane*
To specify the color of hyperlink frames, choose a color from the **Color** drop-down menu.
**STYLE (DROP-DOWN MENU)**

*Edit PDF Style dialog box → Hyperlink pane*

To specify whether hyperlink frames will be solid or dashed lines, choose **Solid** or **Dashed** from the **Style** drop-down menu.

**DISPLAY (DROP-DOWN MENU)**

*Edit PDF Style dialog box → Hyperlink pane*

To specify how the PDF file will display by default, use the **Display** drop-down menu:

- Choose **Inherit Zoom** to use the PDF viewer’s default magnification.
- Choose **Fit Window** to scale pages to fit in the project window.
- Choose **Fit Width** to fit the horizontal width of pages in the project window.
- Choose **Fit Length** to fit the vertical height of pages in the project window.

**COMPRESSION (PANE)**

*Edit PDF Style dialog box*

Use the **Compression** pane to control how pictures and text are compressed for PDF files.

If you use the controls in the **Compression** pane to reduce the resolution of images and to compress images and text, you can improve the performance of QuarkXPress Server.
COLOR IMAGES (AREA)
Edit PDF Style dialog box → Compression pane
Use the controls in the Color Images area to control how pictures and text are compressed for PDF files.

COMPRESSION (DROP-DOWN MENU)
Edit PDF Style dialog box → Compression pane → Color Images area
To specify compression for color bitmap images, choose an option from the Compression drop-down menu in the Color Images area. If you choose an automatic compression option, QuarkXPress Server applies the compression method that best suits each individual image. If you choose a manual compression option, you can specify whether ZIP or JPEG compression is used for color bitmap images. If you choose a JPEG compression option, you can choose the amount of compression to be applied (High, Medium High, Medium, Medium Low, or Low).

RESOLUTION (DROP-DOWN MENU)
Edit PDF Style dialog box → Compression pane → Color Images area
Use the Resolution drop-down menu to choose whether to maintain the resolution of the images or to downsample, subsample, or bicubic downsample them to reduce file size. If you choose Downsample to, QuarkXPress Server determines the average pixel color in an area and replaces the area with a larger single pixel that contains the average color. If you choose Subsample to, QuarkXPress Server selects the center pixel in an area and enlarges that center pixel to replace the area with a single pixel. If you choose Bicubic Downsample to, QuarkXPress Server uses a weighted average to determine pixel color. Bicubic downsampling is the slowest but yields the best results. If you choose Downsample to, Subsample to, or Bicubic Downsample to, enter the final resolution of the image in the dpi field in each area.

GRAYSCALE IMAGES (AREA)
Edit PDF Style dialog box → Compression pane
Use the controls in the Color Images area to control how pictures and text are compressed for PDF files.

COMPRESSION (DROP-DOWN MENU)
Edit PDF Style dialog box → Compression pane → Grayscale Images area
To specify compression for grayscale bitmap images, choose an option from the Compression drop-down menu in the Grayscale Images area. If you choose an automatic compression option, QuarkXPress Server applies the compression method that best suits each individual image. If you choose a manual compression option, you can specify whether ZIP or JPEG compression is used for grayscale bitmap images. If you choose a JPEG compression option, you can choose the amount of compression to be applied (High, Medium High, Medium, Medium Low, or Low).
**RESOLUTION (DROP-DOWN MENU)**

*Edit PDF Style dialog box ➔ Compression pane ➔ Grayscale Images area*

Use the Resolution drop-down menu to choose whether to maintain the resolution of the images or to downsample, subsample, or bicubic downsample them to reduce file size. If you choose **Downsample to**, QuarkXPress Server determines the average pixel color in an area and replaces the area with a larger single pixel that contains the average color. If you choose **Subsample to**, QuarkXPress Server selects the center pixel in an area and enlarges that center pixel to replace the area with a single pixel. If you choose **Bicubic Downsample to**, QuarkXPress Server uses a weighted average to determine pixel color. Bicubic downsampling is the slowest but yields the best results. If you choose **Downsample to**, **Subsample to**, or **Bicubic Downsample to**, enter the final resolution of the image in the dpi field in each area.

**MONOCHROME IMAGES (AREA)**

*Edit PDF Style dialog box ➔ Compression pane*

Use the controls in the **Monochrome Images** area to control how monochrome (black and white) pictures and text are compressed for PDF files.

**COMPRESSION (DROP-DOWN MENU)**

*Edit PDF Style dialog box ➔ Compression pane ➔ Monochrome Images area*

To specify the type of compression QuarkXPress Server should apply to monochrome images, choose **None**, **CCITT Group 3**, **CCITT Group 4**, **ZIP**, or **Run Length** from the Compression drop-down menu in the **Monochrome Images** area.

**RESOLUTION (DROP-DOWN MENU)**

*Edit PDF Style dialog box ➔ Compression pane ➔ Monochrome Images area*

Use the Resolution drop-down menu to choose whether to maintain the resolution of the images or to downsample, subsample, or bicubic downsample them to reduce file size. If you choose **Downsample to**, QuarkXPress Server determines the average pixel color in an area and replaces the area with a larger single pixel that contains the average color. If you choose **Subsample to**, QuarkXPress Server selects the center pixel in an area and enlarges that center pixel to replace the area with a single pixel. If you choose **Downsample to** or **Subsample to**, enter the final resolution of the image in the dpi field in each area.

**COMPRESS TEXT AND LINE ART (CHECK BOX)**

*Edit PDF Style dialog box ➔ Compression pane*

To compress the layout’s text and line art using ZIP compression, check **Compress Text and Line Art**.
ASCII FORMAT (CHECK BOX)
*Edit PDF Style dialog box → Compression pane*
To export the PDF file in ASCII format instead of binary format, check ASCII Format.

COLOR (PANE)
*Edit PDF Style dialog box*
Use the Color pane to specify whether the PDF will be exported in composite format or as separations.

![Edit PDF Style dialog box displaying Color pane](image)

MODE (DROP-DOWN MENU)
*Edit PDF Style dialog box → Color pane*
Choose a color mode from the Mode drop-down menu:

- Choose **Separations** to generate the PDF with color separations.
- Choose **Composite** to create a composite PDF.

SETUP (DROP-DOWN MENU)
*Edit PDF Style dialog box → Color pane*
Choose a color setup from the Setup drop-down menu. The options in this drop-down menu depend on the selected option (Separations or Composite) in the Mode drop-down menu.

For **Separations** mode, choose one of the following options from the Setup drop-down menu.

- The **Convert to Process** option converts all colors in the file into process colors and produces process plates.
- The **Process and Spot** option produces plates for process and spot colors used in the layout.
- The **In-RIP Separations** option prints all process and spot color plates and the output is in the composite format, but the PostScript file to be printed contains separations information.
For Composite mode, choose one of the following options from the Setup drop-down menu.

- The Grayscale option produces a PDF that depicts colors by using shades of gray.
- The Composite CMYK option creates a PDF that uses composite CMYK color.
- The Composite RGB option creates a PDF that uses composite RGB color.
- The Composite CMYK and Spot option enables you to create a PDF with composite PostScript, so that you can output that PDF file using a device that supports in-RIP separations. This option uses DeviceN and supports spot colors.
- The As Is option enables you to describe colored items from their source color space when you print the PDF to a PostScript composite color device.

The Setup drop-down menu also contains all the custom output setups created by you in the Default Output Setups dialog box (Server/QuarkXPress Server → Document Controls → Color Setups → Output).

**FONTS (PANE)**

*Edit PDF Style dialog box*

Use the Fonts pane to specify whether or not the fonts will be embedded in the exported PDF:

**DOWNLOAD ALL FONTS (CHECK BOX)**

*Edit PDF Style dialog box → Fonts pane*

To embed all the fonts in exported PDF files, check Download All Fonts. To embed no fonts in PDF files, uncheck this box.

**MARKS (PANE)**

*Edit PDF Style dialog box*

Use the Marks pane to include crop marks and registration marks in the output. Crop marks are short vertical and horizontal lines printed outside the page’s final trim size to indicate where to cut the page. Registration marks are symbols that are used to align overlaying plates.
**MODE (DROP-DOWN MENU)**

To include crop marks and registration marks on every page, choose **Centered** or **Off Center** from the **Mode** drop-down menu. When you choose **Centered** or **Off Center**, the **Width**, **Length**, and **Offset** fields are available.

**WIDTH, LENGTH, OFFSET (FIELDS)**

Values in the **Width** and **Length** fields specify the width and length of the crop marks. Values in the **Offset** field specify the distance of the crop marks from the page edge.

**BLEED (PANE)**

Use the **Bleed** pane to define different bleed values for each edge of the page, or to use layout items such as boxes and lines to define the bleed. Bleed settings apply to every page in the layout.

The **Bleed** pane displays only if Custom Bleeds XTensions software is loaded. For more information, see Chapter 4, “XTensions software.”
BLEED TYPE (DROP-DOWN MENU AND FIELDS)

*Edit PDF Style* dialog box → *Bleed pane*

To create a bleed by defining how far the bleed extends from the layout page edges, choose *Symmetric* or *Asymmetric* from the *Bleed Type* drop-down menu:

- To create a bleed that extends the same distance from each page edge, choose *Symmetric* and enter a value in the *Amount* field to specify the bleed’s distances.
- To create a bleed with different distances from each page edge, choose *Asymmetric* and enter values in the *Top*, *Bottom*, *Left*, and *Right* fields to specify the bleed distances.

CLIP AT BLEED EDGE (CHECK BOX)

*Edit PDF Style* dialog box → *Bleed pane*

To define whether QuarkXPress Server uses the bleed value to clip items, check *Clip at Bleed Edge*.

TRANSPARENCY (PANE)

*Edit PDF Style* dialog box

Use the *Transparency* pane to specify how transparency is handled at export.

Flattening is triggered by the following features:

- Opacity
- Alpha channel masking
- Blends and grayscale pictures that use the None color
- Line-art TIFF pictures
- Bitmap frames

TRANSPARENCY FLATTENING RESOLUTION (DROP-DOWN MENU AND FIELD)

*Edit PDF Style* dialog box → *Transparency pane*

To specify a resolution for flattened portions of the page, choose a value from the *Transparency Flattening Resolution* drop-down menu.
**IGNORE TRANSPARENCY FLATTENING (CHECK BOX)**

*Edit PDF Style dialog box ➔ Transparency pane*

To print items without taking their opacity values into account, check **Ignore Transparency Flattening**. The items will be rendered as 100% opaque items regardless of the opacity value applied. This option can be useful for troubleshooting transparency-related output problems.

**OPI (PANE)**

*Edit PDF Style dialog box*

Use the **OPI** pane to control settings for OPI. You can use this pane to specify whether TIFF and EPS are included in output, or OPI comments are substituted during output.

The **OPI** pane displays only if OPI XTensions software is loaded. For more information, see Chapter 4, “XTensions software.”

![Edit PDF Style dialog box displaying OPI pane](image)

**OPI ACTIVE (CHECK BOX)**

*Edit PDF Style dialog box ➔ OPI pane*

Check **OPI Active** if you are using an OPI server.

**TIFF OPTIONS (AREA)**

*Edit PDF Style dialog box ➔ OPI pane*

Use the controls in the **TIFF Options** area to control how TIFF pictures are handled in an OPI workflow.

**INCLUDE IMAGES (CHECK BOX)**

*Edit PDF Style dialog box ➔ OPI pane ➔ TIFF Options area*

Check **Include Images** to include TIFF pictures in the output stream.
OPI ACTIVE (CHECK BOX)
Edit PDF Style dialog box → OPI pane
Check Low Resolution to include the low-resolution TIFF images used in the layout, rather than the high-resolution versions.

EPS OPTIONS (AREA)
Edit PDF Style dialog box → OPI pane
Use the controls in the EPS Options area to control how EPS pictures are handled in an OPI workflow.

INCLUDE IMAGES (CHECK BOX)
Edit PDF Style dialog box → OPI pane → TIFF Options area
Check Include Images to include EPS pictures in the output stream. If a high-resolution file cannot be found for an EPS picture, the screen preview is substituted.

JDF (PANE)
Edit PDF Style dialog box
Use the JDF pane to specify whether to save a JDF file from the project’s Job Jackets structure at rendering.

OUTPUT JDF (CHECK BOX)
Edit PDF Style dialog box → JDF pane
To include JDF output when this style is used, check Output JDF.

INCLUDE JOB JACKET CONTACT (DROP-DOWN MENU)
Edit PDF Style dialog box → JDF pane
The Include Job Jacket Contact control is not relevant to QuarkXPress Server and should be ignored.
SUMMARY (PANE)

*Edit PDF Style dialog box*

The **Summary** pane displays a summary of the settings in the other panes.

![Edit PDF Style dialog box displaying Summary pane](image)

**EDIT PRINT STYLE (DIALOG BOX)**

*Output Styles dialog box → New, Edit, or Duplicate*

Use the the **Edit Print Style** dialog box to create or edit print output styles. To display the **Edit Print Style** dialog box, choose **Print** from the **New** drop-down button or click **Edit** or **Duplicate** in the **Output Styles** dialog box.

![Edit Print Style dialog box](image)
PRINT STYLE (FIELD)
Edit Print Style dialog box
In the Print Style field, enter a name for a new print output style or rename an existing print output style.

SEQUENCE (DROP-DOWN MENU)
Edit Print Style dialog box
From the Sequence drop-down menu, choose one of the following options:

• All to print all related pages
• Odd to print only odd-numbered pages
• Even to print only even-numbered pages

SCALE (DROP-DOWN MENU)
Edit Print Style dialog box
To make output smaller or larger than the original, enter a percentage in the Scale field. The default is 100%.

COLLATE (CHECK BOX)
Edit Print Style dialog box
Check Collate to print more than one copy of a layout so that they output with all pages in the correct order for binding.

If you print three copies of a layout and check Collate, QuarkXPress Server prints one complete copy of the layout before beginning the second copy. Uncheck Collate to print three copies of the first page, then three copies of the second page, and so on.

SPREADS (CHECK BOX)
Edit Output Style dialog box → Layout tab
Check Spreads to print two or more adjoining pages side-by-side on the film or paper.

You can print pages as thumbnails to non-PostScript printers or PostScript devices.

BACK TO FRONT (CHECK BOX)
Edit Print Style dialog box
Check Back to Front to print a multiple-page layout in reverse order. The last page in the layout prints first.

FIT PRINT AREA (CHECK BOX)
Edit Print Style dialog box
Check Fit Print Area to reduce or enlarge the size of pages to fit the imageable area of the output media.
PANES

Edit Print Style dialog box

The Edit Print Style dialog box includes the following panes:

- The Device pane
- The Pages pane
- The Colors pane
- The Pictures pane
- The Fonts pane
- The Marks pane
- The Bleed pane
- The Transparency pane
- The OPI pane
- The JDF pane
- The Advanced pane
- The Summary pane

DEVICE (PANE)

Edit Print Style dialog box

Use the Device pane to control device-specific settings, including PPD selection and page positioning.

PPD (DROP-DOWN MENU)

Edit Print Style dialog box ➔ Device pane

To indicate the output device type, choose a PPD file from the PPD drop-down menu. When you specify a PPD, the Paper Size, Width, and Height fields are automatically filled with the default information (if any) supplied by the PPD. If you choose a PPD for an imagesetter, the Page Gap and Paper Offset fields become available. If you do not have the right PPD, choose a similar built-in, generic PPD.
**PAPER SIZE (DROP-DOWN MENU)**
*Edit Print Style dialog box ➔ Device pane*
To specify the media size used by your printer, choose a size from the **Paper Size** drop-down menu.

**WIDTH, HEIGHT (DROP-DOWN MENUS)**
*Edit Print Style dialog box ➔ Device pane*
To specify the width and height of custom media supported by your output device, choose **Custom** from the **Paper Size** drop-down menu and enter values in the **Width** and **Height** fields.

**PAGE GAP (FIELD)**
*Edit Print Style dialog box ➔ Device pane*
For imagesetters only: Enter a value in the **Page Gap** field to specify the amount of space between pages of the layout as the pages print on the roll.

**PAPER OFFSET (FIELD)**
*Edit Print Style dialog box ➔ Device pane*
For imagesetters only: Enter a value in the **Paper Offset** field to specify the distance that the left edge of the page will be offset (or inset) from the left edge of the roll media. For example, if you want a layout page that is 6 inches wide to print centered on a 12-inch-wide roll of RC paper, specify 3.0" in the **Paper Offset** field.

The sum of values entered into the **Width** and **Paper Offset** fields should not be greater than the media width defined for the imagesetter. Values entered into the **Height** field should not be greater than the maximum media height that the imagesetter can support. When sending output to a continuous-feed or nondrum imagesetter, use the **Automatic** setting in the **Height** field.

**POSITION (DROP-DOWN MENU)**
*Edit Print Style dialog box ➔ Device pane*
To position your layout on the selected output media, choose an option from the **Position** drop-down menu. Note that settings in the **Position** drop-down menu can be applied when printing to PostScript or non-PostScript devices.

- **Left Edge** positions the top left of the page on the top left of the selected media.
- **Center** centers the page horizontally and vertically in the imageable area of the selected output media.
- **Center Horizontal** centers the page left-to-right in the imageable area.
- **Center Vertical** centers the page top-to-bottom in the imageable area.
RESOLUTION (FIELD)
*Edit Print Style dialog box ➔ Device pane*
The default resolution for the selected PPD is entered automatically in the Resolution field. To specify a resolution other than the default value, enter a dots per inch (dpi) value in the Resolution field, or choose an option from the Resolution drop-down menu.

NEGATIVE PRINT (CHECK BOX)
*Edit Print Style dialog box ➔ Device pane*
To print negative page images, check Negative Print. When Negative Print is checked, flipping a page horizontally or vertically will produce right-reading, emulsion-down film output, which is a common standard for commercial printers in the United States. For right-reading emulsion-down, negative film output, use the Pages pane to choose Horizontal or Vertical from the Page Flip drop-down menu, and then check Negative Print in the Device pane. This setup produces output where type reads correctly (from left to right) when the emulsion of the film is facing down.

POSTSCRIPT ERROR HANDLER (CHECK BOX)
*Edit Print Style dialog box ➔ Device pane*
To receive printed PostScript error reporting from QuarkXPress Server, check PostScript Error Handler. In addition to providing PostScript error handling information, the PostScript Error Handler utility provides information about where on a page the PostScript error occurs. If a PostScript error occurs during the printing of a QuarkXPress item, the utility prints the page containing the QuarkXPress items that were handled successfully up to the point of the error. The utility then prints an error report that contains the following information:

- The bounding box of the item in which the error occurred. This box is identified by a black border and a 50% black background.
- A message at the top left of the page identifies the type of item that caused the error. Lay the error report on top of the partially printed page to isolate the offending item. The bounding box on the error report indicates the location of the object that is causing the error.

The PostScript Error Handler is designed only for PostScript printing. The PostScript Error Handler will append its report to any other PostScript error reporting utilities you might be using.
PAGES (PANE)

*Edit Print Style dialog box*

Use the Pages pane to specify various methods of rendering pages.

**ORIENTATION (BUTTONS)**

*Edit Print Style dialog box → Pages pane*

To specify whether output should be rendered in portrait or landscape mode, click **Portrait** or **Landscape**.

**INCLUDE BLANK PAGES (CHECK BOX)**

*Edit Print Style dialog box → Pages pane*

To include blank pages in the output, check **Include Blank Pages** (if printing pages) or **Include Blank Spreads** (if printing spreads).

**THUMBNAILS (CHECK BOX)**

*Edit Print Style dialog box → Pages pane*

To print multiple pages of a layout on one sheet of paper at a reduced size (to PostScript and non-PostScript printers), check **Thumbnails**.

**PAGE FLIP (DROP-DOWN MENU)**

*Edit Print Style dialog box → Pages pane*

To flip the output vertically or horizontally, choose an option from the **Page Flip** drop-down menu: **None**, **Horizontal**, **Vertical**, or **Horizontal & Vertical**. When you choose **Horizontal & Vertical**, the image is right-reading, but the page feeds in the opposite direction of the **None** setting.

**PAGE TILING (DROP-DOWN MENU)**

*Edit Print Style dialog box → Pages pane*

To print a large layout in sections (tiles), choose an option from the **Page Tiling** drop-down menu. When you specify tiling, QuarkXPress Server renders portions of each layout page in two or more overlapping tiles that create the complete page when laid side by side. QuarkXPress Server prints tickmarks and location information on each tile to aid you in reassembling them.
• To control the way in which a page is tiled by positioning the ruler origin, choose **Manual**.

• To have QuarkXPress Server determine the number of tiles needed to print each page based on the layout size, the media size, whether or not **Absolute Overlap** is checked, and the value in the **Overlap** field, choose **Automatic**.

### OVERLAP (FIELD)
**Edit Print Style dialog box ➔ Pages pane**
This field is available only if **Page Tiling** is set to **Automatic**. The value entered in the **Overlap** field is the amount QuarkXPress Server will use to extend the page as needed to create the tile. The default overlap is 3”.

### ABSOLUTE OVERLAP (CHECK BOX)
**Edit Print Style dialog box ➔ Pages pane**
This field is available only if **Page Tiling** is set to **Automatic**. When **Absolute Overlap** is checked, QuarkXPress Server will use only the value in the **Overlap** field when extending the page to create the tile. If **Absolute Overlap** is unchecked, QuarkXPress Server will use at least the amount in the **Overlap** field when creating the tile, but it might use a larger amount if necessary. Do not check **Absolute Overlap** if you want your layout centered on the final assembled tiles.

### COLORS (PANE)
**Edit Print Style dialog box**
Use the **Colors** pane to specify whether output will be created in composite format or as separations.

**MODE (DROP-DOWN MENU)**
**Edit Print Style dialog box ➔ Colors pane**
Choose a color mode from the **Mode** drop-down menu:

• Choose **Separations** to generate output with color separations.

• Choose **Composite** to create a composite output.
**SETUP (DROP-DOWN MENU)**
*Edit Print Style dialog box ➔ Colors pane*
Choose a color setup from the Setup drop-down menu. The options in this drop-down menu depend on the option selected (*Separations* or *Composite*) in the Mode drop-down menu.

For *Separations* mode, choose one of the following options from the Setup drop-down menu:

- The **Convert to Process** option converts all colors in the file into process colors and produces process plates.
- The **Process and Spot** option produces plates for process and spot colors used in the layout.
- The **In-RIP Separations** option prints all process and spot color plates. The output is in composite format. However, the PostScript file to be printed contains separations information.

For *Composite* mode, choose one of the following options from the Setup drop-down menu:

- The **Grayscale** option produces output that depicts colors by using shades of gray.
- The **Composite CMYK** option creates output that uses composite CMYK color.
- The **Composite RGB** option creates output that uses composite RGB color.
- The **Composite CMYK and Spot** option enables you to create output with composite PostScript, so that you can send the output to a device that supports in-RIP separations. This option uses DeviceN and supports spot colors.
- The **As Is** option enables you to describe colored items from their source color space when you send the output to a PostScript composite color device.

The Setup drop-down menu also contains all the custom output setups created by you in the Default Output Setups dialog box (*Server/QuarkXPress Server ➔ Document Controls ➔ Color Setups ➔ Output*).

**HALFTONES (DROP-DOWN MENU)**
*Edit Print Style dialog box ➔ Colors pane*
Choose **Conventional** or **Printer** from the Halftones drop-down menu:

- The **Conventional** option uses QuarkXPress Server-calculated halftone screen values.
- The **Printer** option uses halftone screen values provided by the selected printer; in this case, QuarkXPress Server does not send halftoning information.
FREQUENCY (DROP-DOWN MENU)
Edit Print Style dialog box ➔ Colors pane
The default line frequency for the selected PPD is entered automatically in the Frequency field. To specify a line frequency other than the default value, enter a lines per inch (lpi) value in the Frequency field, or choose an option from the Frequency drop-down menu.

COLORS (LIST)
Edit Print Style dialog box ➔ Colors pane
The list at the bottom of the Colors pane lists Process Black as the only color used to print your layout when a black-and-white PPD is selected. If a color PPD is selected, the appropriate color plates display in the list. This list provides the following controls:

- **Plate** column: Lets you specify whether to output (check) or suppress (uncheck) each plate
- **Halftone** column: Lets you view the halftone type for each plate.
- **Frequency** column: Lets you view and change the halftone frequency of each plate.
- **Angle** column: Lets you view and change the screen angle of each plate.
- **Function** column: Lets you view and change the halftone function for each plate.

PICTURES (PANE)
Edit Print Style dialog box
Use the Pictures pane to specify whether the fonts will be embedded in the exported output:

OUTPUT (DROP-DOWN MENU)
Edit Print Style dialog box ➔ Pictures pane
To specify how pictures are printed, choose an option from the Output drop-down menu:

- **Normal** provides high-resolution output of pictures using the data from the pictures’ source files.
- **Low Resolution** prints pictures at screen preview resolution.
- **Rough** suppresses printout of pictures and blends and prints a box as a frame with an “x” in it, much like an empty picture box on screen. (If a picture box has a background of None, no “x” prints in the box when you choose Rough.)
DATA (DROP-DOWN MENU)

To select a format for print data, choose an option from the Data drop-down menu. Although projects print more quickly in Binary format, the ASCII option is more portable because it is a standard format that is readable by a wider range of printers and print spoolers. The Clean 8-bit option combines ASCII and binary in a versatile and portable file format. Note that if a print job flushes without printing, the Binary format could be causing an error; when this situation occurs, try choosing Clean 8-bit or ASCII instead.

OVERPRINT EPS/PDF BLACK (CHECK BOX)

Check Overprint EPS/PDF Black to force all black elements in imported EPS pictures and imported PDF files to overprint (regardless of their overprint settings in the EPS or PDF file).

FULL RESOLUTION TIFF OUTPUT (CHECK BOX)

To print 1-bit TIFF files at full resolution (not to exceed the resolution specified in the Device list item), check Full Resolution TIFF Output. If Full Resolution TIFF Output is unchecked, images greater than 1 bit will be subsampled to twice the lpi setting.

FONTS (PANE)

Use the Fonts pane to specify whether the fonts will be embedded in the output.

DOWNLOAD ALL FONTS (CHECK BOX)

To embed all the fonts in exported the output, check Download All Fonts. To embed no fonts in the output, uncheck this box.

OPTIMIZE FONT FORMATS (CHECK BOX)

Check Optimize Font Formats if you are printing on a PostScript level 3 or later output device, or to a device that uses PostScript 2 version 2015 or later. Checking this option enhances the printing performance in terms of speed because minimum font conversion occurs.
MARKS (PANE)

*Edit Print Style dialog box*

Use the **Marks** pane to include crop marks and registration marks in the output. Crop marks are short vertical and horizontal lines printed outside the page’s final trim size to indicate where to cut the page. Registration marks are symbols that are used to align overlaying plates.

![Edit Print Style dialog box displaying Marks pane](image)

**MODE (DROP-DOWN MENU)**

*Edit Print Style dialog box ➔ Marks pane*

To include crop marks and registration marks on every page, choose **Centered** or **Off Center** from the **Mode** drop-down menu. When you choose **Centered** or **Off Center**, the **Width**, **Length**, and **Offset** fields are available.

**WIDTH, LENGTH, OFFSET (FIELDS)**

*Edit Print Style dialog box ➔ Marks pane*

Values in the **Width** and **Length** fields specify the width and length of the crop marks. Values in the **Offset** field specify the distance of the crop marks from the page edge.

BLEED (PANE)

*Edit Print Style dialog box*

Use the **Bleed** pane to define different bleed values for each edge of the page, or to use layout items such as boxes and lines to define the bleed. Bleed settings apply to every page in the layout.

The **Bleed** pane displays only if Custom Bleeds XTensions software is loaded. For more information, see Chapter 4, “XTensions software.”

![Edit Print Style dialog box displaying Bleed pane](image)
BLEED TYPE (DROP-DOWN MENU AND FIELDS)
Edit Print Style dialog box → Bleed pane
To create a bleed by defining how far the bleed extends from the layout page edges, choose Symmetric or Asymmetric from the Bleed Type drop-down menu:

- To create a bleed that extends the same distance from each page edge, choose Symmetric and enter a value in the Amount field to specify the bleed’s distances.
- To create a bleed with different distances from each page edge, choose Asymmetric and enter values in the Top, Bottom, Left, and Right fields to specify the bleed distances.

CLIP AT BLEED EDGE (CHECK BOX)
Edit Print Style dialog box → Bleed pane
To define whether QuarkXPress Server uses the bleed value to clip items, check Clip at Bleed Edge.

TRANSPARENCY (PANE)
Edit Print Style dialog box
Use the Transparency pane to specify how transparency is handled at export.

Flattening is triggered by the following features:

- Opacity
- Alpha channel masking
- Blends and grayscale pictures that use the None color
- Line-art TIFF pictures
- Bitmap frames

TRANSPARENCY FLATTENING RESOLUTION (DROP-DOWN MENU AND FIELD)
Edit Print Style dialog box → Transparency pane
To specify a resolution for flattened portions of the page, choose a value from the Transparency Flattening Resolution drop-down menu.
**IGNORE TRANSPARENCY FLATTENING (CHECK BOX)**
*Edit Print Style dialog box ➔ Transparency pane*
To print items without taking their opacity values into account, check **Ignore Transparency Flattening**. The items will be rendered as 100% opaque items regardless of the opacity value applied. This option can be useful for troubleshooting transparency-related output problems.

**OPI (PANE)**
*Edit Print Style dialog box*
Use the **OPI** pane to control settings for OPI. You can use this pane to specify whether TIFF and EPS are included in output, or OPI comments are substituted during output.

The **OPI** pane displays only if OPI XTensions software is loaded. For more information, see Chapter 4, “XTensions software.”

**OPI ACTIVE (CHECK BOX)**
*Edit Print Style dialog box ➔ OPI pane*
Check **OPI Active** if you are using an OPI server.

**TIFF OPTIONS (AREA)**
*Edit Print Style dialog box ➔ OPI pane*
Use the controls in the **TIFF Options** area to control how TIFF pictures are handled in an OPI workflow.

**INCLUDE IMAGES (CHECK BOX)**
*Edit Print Style dialog box ➔ OPI pane ➔ TIFF Options area*
Check **Include Images** to include TIFF pictures in the output stream.

**OPI ACTIVE (CHECK BOX)**
*Edit Print Style dialog box ➔ OPI pane*
Check **Low Resolution** to include the low-resolution TIFF images used in the layout, rather than the high-resolution versions.
**EPS OPTIONS (AREA)**
*Edit Print Style dialog box → OPI pane*

Use the controls in the **EPS Options** area to control how EPS pictures are handled in an OPI workflow.

**INCLUDE IMAGES (CHECK BOX)**
*Edit Print Style dialog box → OPI pane → TIFF Options area*

Check **Include Images** to include EPS pictures in the output stream. If a high-resolution file cannot be found for an EPS picture, the screen preview is substituted.

**JDF (PANE)**
*Edit Print Style dialog box*

Use the **JDF** pane to specify whether to save a JDF file from the project’s Job Jackets structure at rendering.

**OUTPUT JDF (CHECK BOX)**
*Edit Print Style dialog box → JDF pane*

To include JDF output when this style is used, check **Output JDF**.

**INCLUDE JOB JACKET CONTACT (DROP-DOWN MENU)**
*Edit Print Style dialog box → JDF pane*

The **Include Job Jacket Contact** control is not relevant to QuarkXPress Server and should be ignored.

**ADVANCED (PANE)**
*Edit Print Style dialog box*

In the **Advanced** pane, you can set the level of PostScript used in embedded EPS files.
POSTSCRIPT LEVEL (DROP-DOWN MENU)
*Edit Print Style dialog box ➔ Advanced pane*
To set the level of PostScript used in embedded EPS files, choose an option from the PostScript Level drop-down menu.

SUMMARY (PANE)
*Edit Print Style dialog box*
The Summary pane displays a summary of the settings in the other panes.

![Edit Print Style dialog box displaying Summary pane](image)

FONT MAPPING
Use the Font Mapping command to set substitute fonts for the rendered image of a project if fonts are unavailable on QuarkXPress Server.

FONT MAPPING (DIALOG BOX)
*Server/QuarkXPress Server ➔ Document Controls ➔ Font Mapping*
Use the Font Mapping dialog box to set rules for missing fonts on the server. If required fonts are not available to QuarkXPress Server, rendered layouts display a substitute font.

![The Font Mapping dialog box](image)
**IMPORT (BUTTON)**
Font Mapping dialog box
Click Import to import an XML file that contains font-replacement rules. Font mapping is applicable if a font used in the rendered project is unavailable on QuarkXPress Server.

**EXPORT (BUTTON)**
Font Mapping dialog box
Click Export to export a set of font-replacement rules as an XML file.

**SAVE (BUTTON)**
Font Mapping dialog box
Click Save to save settings for font mapping.

**CANCEL (BUTTON)**
Font Mapping dialog box
Click Cancel to discard any changes made to font-mapping settings.

**EDIT (BUTTON)**
Font Mapping dialog box
To edit a font-mapping rule, select the rule and click Edit to display the Edit Font Mapping dialog box, then choose a replacement font from the Replacement drop-down menu.

**DELETE (BUTTON)**
Font Mapping dialog box
Click Delete to delete the selected font-mapping rule.

When a font-mapping rule replaces a font, the color and size of characters that use that font remain the same as the characters in the original project.

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**SOURCE SETUPS**

The Source command (Server/QuarkXPress Server → Document Controls → Color Setups → Source) displays the Default Source Setups dialog box, which enables you to create and manage source setups.

A source setup describes colors in a layout as they exist prior to output — in other words, where the colors came from. A source setup contains profiles and rendering intents for both solid colors and pictures in RGB, CMYK, LAB, and grayscale. In addition, it includes information about the underlying color space for named colors (such as Pantone Process Coated colors) and inks (such as cyan, magenta, yellow, black, and multi-inks). You might create source setups for clients based on their standard workflows, or you might create source setups for a specific project.
To get started in creating a source setup, you will need to know some details about the hardware and software involved in a client’s workflow — what type of digital camera and scanner they use, for example — and you’ll need to make sure the relevant profiles are available. It’s also helpful to see sample projects so you know what types of pictures, colors, inks, and devices they’re working with, such as logos, charts and graphs, photographs, duotones, etc., output to SWOP or displayed on the Web.

**DEFAULT SOURCE SETUPS (DIALOG BOX)**

`Server/QuarkXPress Server → Document Controls → Color Setups → Source`

Use the Default Source Setups dialog box to create, edit, duplicate, and delete source setups. You can also append source setups from a QuarkXPress file.

![Default Source Setups dialog box](image)

**NEW (BUTTON)**

Default Source Setups dialog box

Click New to display the Edit Source Setup dialog box, which enables you to add, create, or name a source setup.

**EDIT (BUTTON)**

Default Source Setups dialog box

Click Edit to display the Edit Source Setup dialog box, which enables you to modify the selected source setup. You can also double-click a source setup to display the Edit Source Setup dialog box. You cannot edit or delete the following default source setups: QuarkXPress 7.0 Default and QuarkXPress Emulate Legacy.

**DUPLICATE (BUTTON)**

Default Source Setups dialog box

Click Duplicate to create a copy of the selected source setup. QuarkXPress Server automatically opens the Edit Source Setup dialog box so you can rename and edit the copied source setup.

**DELETE (BUTTON)**

Default Source Setups dialog box

Click Delete to remove the selected source setups.
**APPEND (BUTTON)**

Default Source Setups dialog box

The **Append** button lets you import source setups from a QuarkXPress project, document, template, or library:

1. Click **Append** to display the **Append** dialog box.

2. Select a QuarkXPress project, document, template, or library and click **Open**. The **Append** dialog box displays. The **Available** column lists all the appropriate source setups in the file.

3. Select the source setups to import and double-click them, or click ▸ to move them to the **Include** column. To select a range of source setups, click the first source setup and press Shift while you click the last source setup in the range. To select non-consecutive source setups, press Command/Ctrl while you click each source setup.

**SAVE (BUTTON)**

Default Source Setups dialog box

Click **Save** to save changes made to any source setups and close the **Default Source Setups** dialog box.

**EDIT SOURCE SETUP (DIALOG BOX)**

Default Source Setups dialog box ➔ **New, Edit, or Duplicate**

Click **New, Edit, or Duplicate** in the **Default Source Setups** dialog box to display the **Edit Source Setup** dialog box, which enables you to create or edit a source setup.

![Edit Source Setup dialog box](image)

**NAME (FIELD)**

Edit Source Setup dialog box

In the **Name** field, enter a name for a new source setup or rename an existing source setup.
To configure a source setup:

1. In the RGB, CMYK, LAB, and Gray tabs, review and make changes to the Profile and Rendering Intent selected for Solid Colors and Images.

2. In the RGB and CMYK tabs, if you want color management transformations to occur even within the same color space, check Color Manage RGB Sources to RGB Destinations or Color Manage CMYK Sources to CMYK Destinations, respectively.

3. In the Named Colors tab, specify the source color space for each of the named default colors stored in your preferences. To do this, select a color and choose an option from the Source Space drop-down menu: LAB, RGB, or CMYK. The default setting, Automatic, uses the largest color space available to describe the color.

4. In the Inks tab, specify the source color space for each ink that might be output from the layout. To do this, select an ink and choose an option from the Underlying Color Space drop-down menu. You cannot modify Black, Cyan, Magenta, and Yellow because their source color space will always be CMYK. You can, however, change the setting for Any New Ink or for any inks you create, such as a custom varnish plate. The Automatic setting uses the largest color space available to describe the color, first considering LAB, then RGB, and finally CMYK.

5. To finish the source setup, click OK.

OUTPUT SETUPS

The Source command (Server/QuarkXPress Server → Document Controls → Color Setups → Source) displays the Default Output Setups dialog box, which enables you to create and manage output setups.

An output setup describes the capabilities of various types of output devices and determines how colors are handled in various output scenarios. You can think of an output setup as “where colors are going.” An output setup specifies composite or separation output, the output mode, and an output profile. In QuarkXPress Server, you create output setups for output in print, PDF, and other formats.

As with source setups, to get started in creating an output setup, you need to know details about typical jobs, output methods, and equipment. For example, it’s helpful to know the name and have the profiles for any composite printing devices. QuarkXPress Server provides default output setups for various workflows.
DEFAULT OUTPUT SETUPS (DIALOG BOX)

Server/QuarkXPress Server → Document Controls → Color Setups → Source

Use the Default Output Setups dialog box to create, edit, duplicate, and delete output setups. You can also append output setups from a QuarkXPress file.

New (Button)

Default Output Setups dialog box
Click New to display the Edit Output Setup dialog box, which enables you to add, create, or name an output setup.

Edit (Button)

Default Output Setups dialog box
Click Edit to display the Edit Output Setup dialog box, which enables you to modify the selected output setup. You can also double-click an output setup to display the Edit Output Setup dialog box. You cannot edit or delete the default output setups.

Duplicate (Button)

Default Output Setups dialog box
Click Duplicate to create a copy of the selected output setup. QuarkXPress Server automatically opens the Edit Output Setup dialog box so you can rename and edit the copied output setup.

Delete (Button)

Default Output Setups dialog box
Click Delete to remove the selected output setups.

Append (Button)

Default Output Setups dialog box
The Append button lets you import output setups from a QuarkXPress project, document, template, or library:

1. Click Append to display the Append dialog box.
2. Select a QuarkXPress project, document, template, or library and click Open. The Append dialog box displays. The Available column lists all the appropriate output setups in the file.
3 Select the output setups to import and double-click them, or click ☑ to move them to the Include column. To select a range of output setups, click the first output setup and press Shift while you click the last output setup in the range. To select non-consecutive output setups, press Command/Ctrl while you click each output setup.

**SAVE (BUTTON)**

Default Output Setups dialog box

Click Save to save changes made to any output setups and close the Default Output Setups dialog box.

**EDIT OUTPUT SETUP (DIALOG BOX)**

Default Output Setups dialog box → New, Edit, or Duplicate

Click New, Edit, or Duplicate in the Default Output Setups dialog box to display the Edit Output Setup dialog box, which enables you to create or edit an output setup.

![Edit Output Setup dialog box](image)

**NAME (FIELD)**

Edit Output Setup dialog box

In the Name field, enter a name for a new output setup or rename an existing output setup.

To configure an output setup:

1 Select an option from the Mode drop-down menu to specify the type of output: Composite or Separations.

2 If you select Composite mode, you can specify an output color space from the Model drop-down menu: Grayscale, RGB, CMYK, As Is, or DeviceN. If you select Separations mode, you can select Host-based Separations or In-RIP Separations from the Model drop-down menu.
3 Based on the Model you specify, select an output profile from the Profile drop-down menu. If you need to load custom profiles, use the Profile Manager dialog box (Utilities menu).

4 If you choose CMYK or RGB from the Model drop-down menu, you can configure the output setup to simulate output to a particular output device (output setup) and rendering intent. You might choose to do this, for example, if you want to use an RGB output device to simulate a layout’s appearance when printed to a CMYK press. To make use of this feature, check Proof Separations and then choose options from the Output Simulation and Rendering Intent drop-down menus.

5 To finish the output setup, click OK.

SERVER XTENSIONS MANAGER

The Server XTensions Manager command displays the Server XTensions Manager dialog box.

SERVER XTENSIONS MANAGER (DIALOG BOX)

Server/QuarkXPress Server → Server XTensions Manager

Use the Server XTensions Manager dialog box to control which XTensions modules load and to create and modify sets of XTensions modules.

XTensions Manager dialog box
**SET (DROP-DOWN MENU)**
*XTensions Manager dialog box*
A set is a group of specific XTensions modules that load together. For example, you might make sets of third-party XTensions software that are required only for specific projects or for certain clients. From the Set drop-down menu, choose an XTensions software set to load:

- **All XTensions Enabled** loads all your XTensions software.
- **All XTensions Disabled** does not load any XTensions software.
- **QuarkXPress Server XTensions** loads all your server XTensions software.

**SAVE AS (BUTTON)**
*XTensions Manager dialog box*
Click Save As to create a set from the XTensions software that are currently checked in the Enable column. The Save As button displays the Save Set dialog box, which enables you to name and save the new XTensions software set. XTensions software sets are saved in the “XPressServer Preferences.prf” file, in the QuarkXPress Server “Preferences” folder.

**DELETE (BUTTON)**
*XTensions Manager dialog box*
Click Delete to delete the set displayed in the Set drop-down menu.

**IMPORT (BUTTON)**
*XTensions Manager dialog box*
Click Import to import a set of XTensions software from an exported file.

**EXPORT (BUTTON)**
*XTensions Manager dialog box*
Click Export to export the current set of XTensions software as a file.

**ENABLE (CHECK BOX)**
*XTensions Manager dialog box*
Check Enable to include an Xtensions software among the software that is loaded.

**NAME (COLUMN)**
*QuarkXPress Server → Server XTensions Manager*
The Name column displays all the XTensions software in the “XTensions” and “XTensions Disabled” folders within the QuarkXPress Server application folder.

**SXT (COLUMN)**
*QuarkXPress Server → Server XTensions Manager*
The SXT column indicates the type of XTensions software: If Yes displays in the SXT column, that XTensions software is written specifically for QuarkXPress Server. If No displays in the column, the XTensions software was written for QuarkXPress, but it can be used with QuarkXPress Server.
STATUS (COLUMN)
QuarkXPress Server → Server XTensions Manager
The Status column defines whether the XTensions software is Active (currently loaded) or Inactive (disabled). If QuarkXPress Server was unable to load the XTensions software, the Status is Error.

ABOUT (BUTTON)
QuarkXPress Server → Server XTensions Manager
Click About to display detailed information about the selected XTensions software.

STATUS MONITOR
The Status Monitor command displays the Status Monitor dialog box, which shows the status of the server. When the Status Monitor dialog box is open, you can choose Verbose Status Monitoring from the QuarkXPress Server menu for more detailed monitoring options.

Verbose status monitoring slightly degrades the performance of QuarkXPress Server.

STATUS MONITOR (WINDOW)
Server → Status Monitor (Mac OS)
QuarkXPress Server → Status Monitor (Windows)
The Status Monitor window lets you check the status of the QuarkXPress Server application.
STATUS (FIELD)
Status Monitor window
The Status field shows the current status of the QuarkXPress Server. The Status field displays a status of Running, Paused, or Stopped.

PORT (FIELD)
Status Monitor window
The Port field displays the port number QuarkXPress Server is using. You can set the port number in the HTTP tab of the Server Configuration dialog box (QuarkXPress Server menu).

TRANSACTIONS (FIELD)
Status Monitor window
The Transactions field displays the number of transactions completed by QuarkXPress Server since its start. It makes no difference whether the status monitor is on or off; all transactions are counted.

CONNECTIONS (FIELD)
Status Monitor window
The Connections field displays the maximum number of simultaneous connections that are allowed. Set this value in the HTTP tab of the Server Configuration dialog box (QuarkXPress Server menu).

IN USE (FIELD)
Status Monitor window
The In Use field displays the current number of simultaneous connections.

QUEUED (FIELD)
Status Monitor window
The Queued field displays the current number of connections waiting for a renderer to become available.

MEMORY USAGE (FIELD)
Status Monitor window
The Memory Usage field displays the amount of memory used by memory-cached projects.

SERVER USAGE (BAR)
Status Monitor window
The Server Usage bar displays the length of time from when the server was started (the time from when the server had at least one renderer working).

MEMORY CACHE (BAR)
Status Monitor window
The Memory Cache bar displays the percentage of allocated memory cache space in use.
CONNECTION LOAD (BAR)
Status Monitor window
The Connection Load bar displays the percentage of connections being used. This percentage is based on connections used since the start of QuarkXPress Server and is time sensitive. For example, if all connections have been used since the server started, the load is 100%. If the number of connections used drops to half the maximum value, instead of dropping immediately to 50%, the percentage load gradually declines over time.

CURRENT (FIELD)
Status Monitor window
The Current field displays the rendering operations that are currently active. When QuarkXPress Server is running in master-subrenderer mode, the Current field displays the number of active and idle QuarkXPress Server subrenderers.

CONNECTION STATUS (AREA)
Status Monitor window
The Connection Status area displays the status for each active connection. The information that displays for each connection includes the name of the project being processed and a progress bar that displays the relative completion of the transaction. When the transaction is complete, the status displays as idle until the connection is used to process another transaction.

The Status Monitor dialog box displays a total of 16 status areas. The number of active displays is determined by the number of available connections as specified in the HTTP tab of the Server Configuration dialog box (QuarkXPress Server menu).

TEXT FOR TRANSACTION STATUS (AREA)
Status Monitor window
The information displayed in the Text Area for Transaction Status area depends on whether Verbose Status Monitoring has been chosen. Regardless, all transactions generate an entry in the status monitor, and the entry provides information about successful transactions or errors.

VERBOSE STATUS MONITORING (COMMAND)
Server ➔ Verbose Status Monitoring (Mac OS)
QuarkXPress Server ➔ Verbose Status Monitoring (Windows)
To display more detailed information in the Status Monitor dialog box, check Verbose Status Monitoring.
OTHER MENU ITEMS

ABOUT QUARKXPRESS SERVER (DIALOG BOX)

QuarkXPress Server → About QuarkXPress Server
To display the QuarkXPress Server splash screen, choose QuarkXPress Server → About QuarkXPress Server.

CHECK OUT LICENSE (DIALOG BOX)

Server/QuarkXPress Server → Check Out License
To check the QuarkXPress Server license out of Quark License Administrator, choose the Check Out License command.

PAUSE SERVER (COMMAND)

Server/QuarkXPress Server → HTTP Server → Pause Server
To pause the QuarkXPress Server HTTP server, choose the Pause Server command. To start the server again, choose Server/QuarkXPress Server → HTTP Server → Start Server.

START SERVER (COMMAND)

Server/QuarkXPress Server → HTTP Server → Start Server
To start the HTTP server, choose Server/QuarkXPress Server → HTTP Server → Start Server.

STOP SERVER (COMMAND)

Server/QuarkXPress Server → HTTP Server → Stop Server
To stop the QuarkXPress Server HTTP server without closing the QuarkXPress Server application, choose Stop Server.

SHUT DOWN SERVER (COMMAND)

Server/QuarkXPress Server → Shut Down Server
To shut down the QuarkXPress Server HTTP server and close the QuarkXPress Server application, choose Shut Down Server.

CLEAR STATUS MONITOR (COMMAND)

Server/QuarkXPress Server → HTTP Server → Clear Status Monitor
To clear all information from the Status Monitor window, choose Clear Status Monitor.
Chapter 3: Creating URL requests

You can use URL requests to make QuarkXPress Server render projects in a variety of formats, to use the features of server XTensions modules, and to control the server. This chapter provides an overview of how to construct server requests and use URL parameters.

This chapter also lists functions that let you control the server. For detailed information about constructing other types of URL requests, see the QuarkXPress Server Web Integration Guide.

UNDERSTANDING URL REQUESTS

QuarkXPress Server URL requests should use the following format:

http://server:port/namespace/path/projectname?parameter=value

- **server**: Indicates the name or IP address of the QuarkXPress Server computer.
- **port**: Indicates the QuarkXPress Server application’s port number. The default port number is 8080.
- **namespace**: Sets the render type (or indicates another server functionality to access). For more information, see “QuarkXPress Server namespaces” in this chapter.
- **path**: Indicates the path to the directory where the target project file is stored; the document pool is the root directory. If you want to use a project file at the root level of the document pool directory, no path is necessary.
- **projectname**: Identifies the project to be rendered.
- **parameter=value**: Optional parameters that provide more detailed control over how the target project should be rendered. Multiple parameter/value pairs, separated by the “&” character, can be included. For more information, see “URL parameters” in this chapter.

For example, the following URL asks the QuarkXPress Server application named “QXPServer7” to return the file “MyProject.qxp” as a PDF file with hyperlinks and all fonts embedded:

http://QXPServer7:8080/PDF/MyProject.qxp?includehyperlinks=1&embedallfonts=1
Some URL parameters require Boolean arguments. For such parameters, valid values include 1 or 0, true or false, y or n, and yes or no.

You can also send requests to QuarkXPress Server using the HTTP GET and POST protocols and using XML with XSLT. For more information about these approaches, see the QuarkXPress Server Client SDK.

UNDERSTANDING QUARKXPRESS SERVER NAMESPACEs

QuarkXPress Server namespaces differentiate among types of requests that are otherwise identical. For example, consider the following three URLs:

http://QXPServer7:8080/project1.qxp
http://QXPServer7:8080/pdf/project1.qxp
http://QXPServer7:8080/postscript/project1.qxp

These requests are identical, except each uses a different namespace (in bold). (The first request does not specify a namespace, but this simply means the project is to be rendered using the server’s default render type.)

Namespaces can be used to determine the format in which a rendered project is returned, as indicated above, but they can also be used to direct a request to XTensions software that performs other functions. For example, if you use the namespace assigned to Deconstructor XTensions software, Deconstructor XTensions software returns an XML representation of the project.

LOOKING UP A NAMESPACE

The QuarkXPress Server Web Integration Guide lists the namespaces for every QuarkXPress Server function. There is no single list of namespaces because some functions do not require a particular namespace or are available in multiple namespaces. To determine which namespace you want to use:

1 Open the QuarkXPress Server Web Integration Guide in a Web browser.
2 Choose Complete API List from the QuarkXPress Server Functions menu at the top of the page.
3 Click the link for the render type you want or the function you want to use. (The link might be a dynamic publishing process, a renderer, or a request handler.) The page corresponding to that render type or function displays.
4 Locate the Namespace row. If the render type or function has an associated namespace, that namespace is listed here.
UNDERSTANDING QUARKXPRESS SERVER PARAMETERS

Parameters let you control the details of how a request is executed. For example, you can use the page parameter to create a request that returns only the third page of a project:

http://ServerName:8080/jpeg/project1.qxp?page=3

You can include multiple parameters in the same request; simply separate them with an ampersand (&). For example, here's a new version of the above URL that returns page three at a scale of 50%:

http://ServerName:8080/jpeg/project1.qxp?page=3&scale=.5

LOOKING UP A PARAMETER

The QuarkXPress Server Web Integration Guide lists the parameters that are available for every QuarkXPress Server function. To determine which parameters you can use with a request:

1 Open the QuarkXPress Server Web Integration Guide in a Web browser.
2 Choose Complete API List from the QuarkXPress Server Functions menu at the top of the page.
3 Click the link for the render type you want or the function you want to use. (The link might be a dynamic publishing process, a renderer, or a request handler.) The page corresponding to that render type or function displays.
4 Locate the Parameters row. This row lists all available parameters, and includes a description and a list of valid values for each parameter.

QUARKXPRESS SERVER WEB INTEGRATION GUIDE OVERVIEW

This section provides an overview of the contents of the QuarkXPress Server Web Integration Guide.

RENDER TYPES

QuarkXPress Server render types include the following:

- eps: Causes QuarkXPress Server to return an EPS file.
- jpeg: Causes QuarkXPress Server to return a JPEG image.
- literal: Causes QuarkXPress Server to return the target file with no processing at all (in other words, exactly as it exists on the server). You can use this render type to make QuarkXPress Server act like a standard Web server (for example, to return HTML files).
- png: Causes QuarkXPress Server to return a PNG image. For more information, see “PDF Filter XTensions software” in Chapter 4, “XTensions software.”
• **pdf:** Causes QuarkXPress Server to return a PDF file.
• **postscript:** Causes QuarkXPress Server to return a PostScript file.
• **ppml:** Causes QuarkXPress Server to create PPML output. For more information, see “PPML Export XTensions software” in Chapter 4, “XTensions software.”
• **qxpdoc:** Causes QuarkXPress Server to return a QuarkXPress project file. When you use this parameter, you can also use the `qxpdocver` parameter to change the file version of the retrieved QuarkXPress project. However, you cannot return a QuarkXPress project in a version format earlier than QuarkXPress 6.
• **qxpr:** Causes QuarkXPress Server to return an RLE Raw Custom format image.
• **raw:** Causes QuarkXPress Server to render the project in a QuarkXPress internal format. On Mac OS, this format is a pixmap, and on Windows it is a BMP image. On both platforms, the image is wrapped within a QuarkXPress data structure that can be used only by other Quark components. Using this format enhances performance by preventing image translation. This format is available in both uncompressed and RLE-compressed versions.
• **screenpdf:** Causes QuarkXPress Server to return a low-resolution PDF file, regardless of any compression settings specified. For more information, see “PDF Filter XTensions software” in Chapter 4, “XTensions software.”

Developers can implement additional rendering formats through server XTensions software.

If you are using QuarkXPress Server on Mac OS and choose to render a Mac OS project in QuarkXPress format, the resulting project file has no resource fork, and you cannot preview it. The project functions normally in all other respects.

**GENERAL PARAMETERS**

General parameters are parameters that are applicable to most render types.

• **box:** Renders only the box identified by the supplied name or item ID.
• **layers:** Renders only the layers identified by the supplied names. For more information, see “QuarkXPress Server Layer XTensions software” in Chapter 4, “XTensions software.”
• **layout:** Renders the layout identified by the supplied name, regardless of which layout was active when the project was last saved.
• **page:** Renders only the identified page.
• **pages:** Renders only the identified pages.
• **pasteboard:** Specifies whether to render the pasteboard.
• **scale:** Indicates the scale at which the project should be rendered.
• **spread**: Renders only the identified spread.

• **spreads**: If true, causes spreads to be rendered instead of individual pages to be rendered.

Different general parameters are available for different kinds of objects, as follows:

<table>
<thead>
<tr>
<th>FORMAT</th>
<th>BOX</th>
<th>PAGE</th>
<th>SPREAD</th>
<th>DOC/PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>JPEG</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>PNG</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>PostScript</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>QuarkXPress</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>yes (doc.) no (page)</td>
</tr>
<tr>
<td>Raw</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>EPS</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
<td>yes (1 page)</td>
</tr>
<tr>
<td>PDF</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>

Additional render-type-specific parameters are listed on each render type’s page.

**SPECIALIZED PARAMETERS**

Specialized parameters are parameters that serve special purposes. Some of these parameters work by asking the server to read the contents of XML files.

• **deconstruct**: Causes QuarkXPress Server to return an XML representation of the indicated project. For more information, see “Deconstructor XTensions software” in Chapter 4, “XTensions software.”

• **modify**: Provides access to the features of Modifier XTensions software. For more information, see “Modifier XTensions software” in Chapter 4, “XTensions software.”

• **fontname**: Lets you apply a font to imported text.

• **paginate**: Lets you merge XML content into a template that you have set up in QuarkXPress using XML Import XTensions software. This parameter’s functionality is similar to that of the **Merge** button in the XML **Import** palette. You can supply the XML as a string in the URL or by specifying the path to an XML file on the server computer.

• **thexml**: Lets you use XML to import content into text boxes and picture boxes that you have set up in QuarkXPress using XML Import XTensions software. This parameter is useful when you are generating PPML output using a PPML output style.
SERVER CONTROL PARAMETERS

Server control parameters include the following:

- **addfile**: Adds the attached QuarkXPress project to the document pool. This request triggers a `flush` or `flushall` request, which removes projects from the open project cache and the memory project cache.

- **clang**: Specifies the language of the client operating system.

- **cplatform**: Specifies the client operating system.

- **delete**: Removes the specified project or folder from the document pool. If you try to delete a folder that is not empty, an alert displays.

- **fileinfo**: Retrieves the creation date, modification date, and file size of the specified project in XML format.

- **flush**: Purges a particular project from the open project cache and the memory project cache.

- **flushall**: Purges all projects from the open project cache and the memory project cache.

- **getdocinfo**: Retrieves information about a specific project in the document pool. The information is formatted in XML and lists the project version, platform, layout names, layer names, page properties, page length and width expressed in points, number of pages, linked high-resolution graphics, names of any graphic images, names of any required fonts and XTensions modules, and relevant XTensions software IDs.

- **getprefs**: Retrieves the preference settings of the server in XML format.

- **getprojinfo**: Retrieves information about a specific QuarkXPress project in the document pool. The information is formatted in XML and contains details about the operating system, the QuarkXPress version in which the project was created, the size of the project, the page properties of the project’s layouts, and any information about named boxes and synchronized text.

- **getserverinfo**: Retrieves information about QuarkXPress Server. The information is formatted in XML and contains details about the platform the server is running on, installed fonts, installed server XTensions modules, and relevant XTensions software IDs. Information about disabled server XTensions software cannot be retrieved.

- **setprefs**: Sets one or more preference settings. Refer to “Preference Administration Parameters” in this chapter for a list of preferences that can be controlled with this request.

- **shutdown**: Shuts down the server.
### PREFERENCE ADMINISTRATION PARAMETERS

The `/setprefs` handler lets clients remotely control QuarkXPress Server preferences. For example, `http://<servername>:<port>/setprefs?AddConnectionFilter=action=allow; ipaddr=206.195.80.80; mask=255.255.255.1; pos=0` permits connection filters and specifies the IP address and the subnet mask of the connection.

<table>
<thead>
<tr>
<th>ATTRIBUTE</th>
<th>TYPE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PortNumber</td>
<td>integer</td>
<td>Specifies a port number from 1024 to 65,535 (Mac OS) or 1 to 65,535 (Windows).</td>
</tr>
<tr>
<td>MaxListens</td>
<td>integer</td>
<td>Specifies the maximum number of listens from 1 to 32.</td>
</tr>
<tr>
<td>MaxConnections</td>
<td>integer</td>
<td>Specifies the maximum number of connections from 1 to 16.</td>
</tr>
<tr>
<td>CacheSize</td>
<td>integer</td>
<td>Specifies the memory cache size from 1MB to 1024MB.</td>
</tr>
<tr>
<td>DocumentRootFolder</td>
<td>string</td>
<td>Specifies the document root directory.</td>
</tr>
<tr>
<td>AllowAddFile</td>
<td>Boolean</td>
<td>Allows the addition of files to the document root directory.</td>
</tr>
<tr>
<td>LoggingEnabled</td>
<td>Boolean</td>
<td>Controls whether transactions and errors are logged.</td>
</tr>
<tr>
<td>LogFolder</td>
<td>string</td>
<td>Specifies the path to the log folder, which contains the error and transaction log files.</td>
</tr>
<tr>
<td>LogErrors</td>
<td>Boolean</td>
<td>Specifies whether to log error conditions.</td>
</tr>
<tr>
<td>LogTransactions</td>
<td>Boolean</td>
<td>Specifies whether to log all successful transactions.</td>
</tr>
<tr>
<td>LogTiming</td>
<td>Boolean</td>
<td>Specifies whether to include timing information (such as processing time and opening time) in the transaction log.</td>
</tr>
<tr>
<td>ATTRIBUTE</td>
<td>TYPE</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>--------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>LogEvents</td>
<td>Boolean</td>
<td>Specifies whether to log server events that are not related to error conditions.</td>
</tr>
<tr>
<td>ForceServedDocumentsClosed</td>
<td>Boolean</td>
<td>Causes QuarkXPress Server to close projects that are loaded into cache from the document pool after rendering them.</td>
</tr>
<tr>
<td>AllowMemoryCaching</td>
<td>Boolean</td>
<td>Specifies whether to store disk-based projects in a memory-resident cache.</td>
</tr>
<tr>
<td>DefaultDoc</td>
<td>string</td>
<td>Specifies the default HTML file to be returned when the server is accessed through HTTP.</td>
</tr>
<tr>
<td>ErrorDoc</td>
<td>string</td>
<td>Specifies the HTML file to be retrieved when an error occurs on the server.</td>
</tr>
<tr>
<td>NoAccessDoc</td>
<td>string</td>
<td>Specifies the HTML file to be returned when access is denied to a server function or project file.</td>
</tr>
<tr>
<td>DefaultRenderType</td>
<td>string</td>
<td>Sets the default. Valid values include PNG, PDF, EPS, PSCR, QXPD, RAW, RLER, JPEG, and PPML.</td>
</tr>
<tr>
<td>EnableFileSystemDocPool</td>
<td>Boolean</td>
<td>Controls whether you can specify a folder as the document pool. The default value is YES.</td>
</tr>
<tr>
<td>VerboseStatusMonitoring</td>
<td>Boolean</td>
<td>Specifies whether to allow verbose status monitoring.</td>
</tr>
<tr>
<td>LogDocProblems</td>
<td>Boolean</td>
<td>Specifies whether to log any project problems.</td>
</tr>
<tr>
<td>LogBadSXTDialogs</td>
<td>Boolean</td>
<td>Specifies whether to log server XTensions software dialog boxes that do not conform to QuarkXPress Server expectations.</td>
</tr>
<tr>
<td>EnableHTTPInterface</td>
<td>Boolean</td>
<td>Turns the built-in HTTP server on or off.</td>
</tr>
<tr>
<td>ATTRIBUTE</td>
<td>TYPE</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-----------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>ConnectionTimeout</td>
<td>integer</td>
<td>Specifies the amount of time (in seconds) before a connection times out. Valid values are from 1 to 32,767.</td>
</tr>
<tr>
<td>UseConnectionFilters</td>
<td>Boolean</td>
<td>Specifies whether to allow the addition and modification of IP addresses.</td>
</tr>
<tr>
<td>DefaultBufferSize</td>
<td>integer</td>
<td>Specifies the size (in KB) of the HTTP buffer. Enter a value from 16 to 256.</td>
</tr>
<tr>
<td>RequireAdmin Verification</td>
<td>Boolean</td>
<td>Specifies whether to require a user name and password.</td>
</tr>
<tr>
<td>VerificationUsername</td>
<td>string</td>
<td>Lets you supply a user name. Minimum length is 4 characters; maximum length is 32 characters.</td>
</tr>
<tr>
<td>VerificationPassword</td>
<td>string</td>
<td>Lets you supply a password. Minimum length is 4 characters; maximum length is 32 characters.</td>
</tr>
<tr>
<td>ConfirmPassword</td>
<td>string</td>
<td>Confirms a password. Minimum length is 4 characters; maximum length is 32 characters.</td>
</tr>
<tr>
<td>GenerateHierarchy</td>
<td>Boolean</td>
<td>On an OnAddFile request, specifies whether to create a new file hierarchy as files are added to the document pool.</td>
</tr>
<tr>
<td>AddConnectionFilter</td>
<td>Boolean (allow/deny)</td>
<td>Specifies whether to allow the addition of connection filters.</td>
</tr>
<tr>
<td>ipaddr</td>
<td>string</td>
<td>Specifies an IP address for use with connection filters. Use the following format: 123.456.789.123.</td>
</tr>
<tr>
<td>ATTRIBUTE</td>
<td>TYPE</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>----------------------</td>
<td>----------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>mask</td>
<td>string</td>
<td>Specifies a subnet mask for use with connection filters. Use the following format: 123.456.789.123.</td>
</tr>
<tr>
<td>pos</td>
<td>integer</td>
<td>Specifies the position at which to add a connection filter.</td>
</tr>
<tr>
<td>RemConnectionFilter</td>
<td>integer</td>
<td>Removes a filter at a given index.</td>
</tr>
<tr>
<td>DisableQxdReturn</td>
<td>boolean</td>
<td>Controls whether a project can be rendered as a QuarkXPress project.</td>
</tr>
<tr>
<td>ContentLoadingTimeout</td>
<td>integer</td>
<td>Controls the amount of time (in seconds) the server waits for a server XTensions module or other document provider to load content asynchronously before timing out the transaction.</td>
</tr>
</tbody>
</table>
Chapter 4: XTensions software

Just as XTensions software provides additional functionality to QuarkXPress, XTensions software enables QuarkXPress Server to do things it can’t do by default. The XTensions modules included with QuarkXPress Server allow clients to render projects as PDF files, apply QuarkVista picture effects to pictures, dynamically update pictures in picture boxes and text in text boxes (as well as boxes themselves), import data on the fly, manipulate layers in projects, and more.

PDF FILTER XTENSIONS SOFTWARE

PDF Filter XTensions software allows QuarkXPress Server to render a QuarkXPress project as a PDF file.

PDF Filter XTensions software adds a PDF pane to the Preferences dialog box (QuarkXPress Server → Preferences). For more information, see “Server preferences” in Chapter 2, “The QuarkXPress Server user interface.”

To take advantage of more detailed preferences, create a PDF output style and use that output style when rendering projects as PDF files. For more information, see “Output styles” in Chapter 2, “The QuarkXPress Server user interface.”

RENDERING QUARKXPRESS PROJECTS AS PDF FILES

To render QuarkXPress projects as PDF files when PDF is not the QuarkXPress Server default render type, use the PDF namespace, as follows:

http://server:port/pdf/projectname

URL PARAMETERS FOR PDF RENDERING

For information about using URL parameters, see Chapter 3, “Creating URL Requests.” For information about the specific parameters for PDF export, see the QuarkXPress Server Web Integration Guide.
PPML EXPORT XTENSIONS SOFTWARE

PPML Export XTensions software allows QuarkXPress Server to export a QuarkXPress project in PPML format. This module can be used in conjunction with the XML Import XTensions module to produce customized versions of a layout for different customers.

RENDERING QUARKXPRESS PROJECTS IN PPML FORMAT
To render QuarkXPress projects in PPML format when PPML is not the QuarkXPress Server default render type, use the PPML namespace, as follows:

http://server:port/ppml/projectname?path= [path of output directory on server]

URL PARAMETERS FOR PPML RENDERING
For information about using URL parameters, see Chapter 3, “Creating URL Requests.” For information about the specific parameters for PPML export, see the QuarkXPress Server Web Integration Guide.

MODIFIER XTENSIONS SOFTWARE
Modifier XTensions software lets clients perform all of the following tasks using XML:

- Modify the properties of pictures in a QuarkXPress project
- Modify the text in text boxes within a QuarkXPress project
- Modify the properties of text boxes and picture boxes in a QuarkXPress project
- Create and delete picture boxes and text boxes in a QuarkXPress project
- Import text or text strings into text boxes within a QuarkXPress project
- Import pictures into picture boxes within a QuarkXPress project
- Save modified QuarkXPress projects in any supported format to any location on the network (and also in the QuarkXPress Server document pool)

To use Modifier XTensions software, a client creates an XML file indicating the actions to be taken and sends that XML file to the QuarkXPress Server application, where Modifier XTensions software reads the XML and makes the requested changes. Clients can use a single XML file or string to manipulate multiple documents and boxes.

The Document Type Definition (DTD) for Modifier XML is provided at the end of this section.
Modifier XTensions software supports both GET and POST functionality.

Modifier XTensions software supports XML containing code that uses Unicode UTF-8 and UTF-16 encodings. Use the encoding attribute of the XML declaration to specify an encoding, as you would with any other XML file.

Modifier XTensions software adds a Modifier pane to the Preferences dialog box (QuarkXPress Server → Preferences). For more information, see “Server preferences” in Chapter 2, “The QuarkXPress Server user interface.”

**USING MODIFIER XTENSIONS SOFTWARE**

To use Modifier XTensions software:

1. Create a QuarkXPress project. Note the IDs or names of any text and picture boxes you want to manipulate.
2. Upload the project to the QuarkXPress Server document pool.
3. Create XML that describes the changes you want, as described in “Creating XML for Modifier XTensions software” below.
4. Send the XML to the server in one of the following ways:
   - Put the XML in a file on the server and then use a URL to point to the file, as follows:
     
     http://server:port/namespace/path/projectname?modify=file:absolute path to XML file on server
   - Put the XML in the URL, as follows:
     
     http://server:port/namespace/path/projectname?modify=XML string

Clients can also send XML in the form of a POST request.

**CREATING XML FOR MODIFIER XTENSIONS SOFTWARE**

All XML used with Modifier XTensions software uses the DTD presented at the end of this section. In general, the structure for addressing items in a particular layout is as follows:

```xml
<PROJECT>
  <LAYOUT LAYOUTNAME="[name of layout]">
    <!--[Item being addressed]-->
    <!--[Parameters of item]-->
  </LAYOUT>
</PROJECT>
```

The following subsections explain in more detail how to use this structure.
MODIFYING IMAGES

Use the following structure to modify pictures:

```xml
<PROJECT>
  <LAYOUT LAYOUTNAME="[name of layout]">
    <BOX>
      <ID>[ID or name of target box]</ID>
      <PICTURE>
        <[parameters]>
      </PICTURE>
    </BOX>
  </LAYOUT>
</PROJECT>
```

In the above example, `[ID or name of target box]` can be determined using Telegraph XTensions software, and `[parameters]` includes the element types listed in “Modifier parameters for pictures.” Multiple parameters can be supplied for a single box.

MODIFIER PARAMETERS FOR PICTURES

Use the parameters described in this section to modify pictures in a QuarkXPress project.

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANGLE</td>
<td>Use this parameter to rotate a picture by a number of degrees within its picture box. For example, <code>&lt;ANGLE&gt;120&lt;/ANGLE&gt;</code> sets a picture’s angle of rotation to 120 degrees. The valid range for rotation is from –360 degrees to +360 degrees.</td>
</tr>
<tr>
<td>CENTERPICTURE</td>
<td>Use this parameter to center a picture in a picture box. For example, <code>&lt;CENTERPICTURE&gt;TRUE&lt;/CENTERPICTURE&gt;</code> aligns the center of a picture with the center of its picture box.</td>
</tr>
<tr>
<td>FITBOXTOPICTURE</td>
<td>Use this parameter to fit a picture box to the dimensions of the picture it contains. For example, <code>&lt;FITBOXTOPICTURE&gt;TRUE&lt;/FITBOXTOPICTURE&gt;</code> changes the size of a picture box to perfectly fit its picture.</td>
</tr>
<tr>
<td>FITPICTURETOBOX</td>
<td>Use this parameter to scale a picture to fit within a picture box and allow horizontal and vertical picture scale to differ. For example, <code>&lt;FITPICTURETOBOX&gt;TRUE&lt;/FITPICTURETOBOX&gt;</code> scales a picture to fit its picture box, even if the picture must be stretched in one direction.</td>
</tr>
<tr>
<td>PARAMETER</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>-------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>FITPICTURETOBOXPRO</td>
<td>Use this parameter to proportionally scale a picture to a picture box while keeping horizontal and vertical scale proportional. For example, <code>&lt;FITPICTURETOBOXPRO&gt;TRUE&lt;/FITPICTURETOBOXPRO&gt;</code> scales a picture to the largest size that will allow the entire picture to fit entirely within the picture box without stretching the picture in either direction.</td>
</tr>
<tr>
<td>FLIPHORIZONTAL</td>
<td>Use this parameter to flip a picture horizontally within a picture box. For example, <code>&lt;FLIPHORIZONTAL&gt;TRUE&lt;/FLIPHORIZONTAL&gt;</code> flips a picture horizontally.</td>
</tr>
<tr>
<td>FLIPVERTICAL</td>
<td>Use this parameter to flip a picture vertically within a picture box. For example, <code>&lt;FLIPVERTICAL&gt;TRUE&lt;/FLIPVERTICAL&gt;</code> flips a picture vertically.</td>
</tr>
<tr>
<td>OFFSETACROSS</td>
<td>Use this parameter to specify the horizontal position of a picture within its picture box. Horizontal offset is measured in points from the left side of the picture box to the left side of the picture. For example, <code>&lt;OFFSETACROSS&gt;25&lt;/OFFSETACROSS&gt;</code> places the left side of the picture 25pt to the right of the left side of the picture box.</td>
</tr>
<tr>
<td>OFFSETDOWN</td>
<td>Use this parameter to specify the vertical position of a picture within its picture box. Vertical offset is measured in points from the top of the picture box to the top of the picture. For example, <code>&lt;OFFSETDOWN&gt;25&lt;/OFFSETDOWN&gt;</code> places the top of the picture 25pt below the top of the picture box.</td>
</tr>
<tr>
<td>SCALEACROSS</td>
<td>Use this parameter to scale a picture horizontally to between 10% and 1,000% of its imported size. For example, <code>&lt;SCALEACROSS&gt;25&lt;/SCALEACROSS&gt;</code> sets a picture’s horizontal scale to 25%. This parameter does not affect picture box size.</td>
</tr>
<tr>
<td>SCALEDOWN</td>
<td>Use this parameter to scale a picture vertically to between 10% and 1,000% of its imported size. For example, <code>&lt;SCALEDOWN&gt;25&lt;/SCALEDOWN&gt;</code> sets a picture’s vertical scale to 25%. This parameter does not affect picture box size.</td>
</tr>
<tr>
<td>SKEW</td>
<td>Use this parameter to skew a picture by a number of degrees within its picture box. For example, <code>&lt;SKEW&gt;25&lt;/SKEW&gt;</code> skews a picture within its picture box by 25 degrees. The valid range for skewing is from –75 degrees to +75 degrees.</td>
</tr>
</tbody>
</table>
You can specify the render type in the URL for previewing or publishing your QuarkXPress project. The **Preview** mode is identified by JPEG or PNG file types; the **Publish** mode is identified by EPS, PDF, screen PDF, PostScript, or QuarkXPress project types. If you do not specify the render type, Modifier XTensions software uses the default render type set in QuarkXPress Server.

For one instance of a picture, you can specify only one of the following tags: `<FITPICTURETOBOX>`, `<FITBOXTOPICTURE>`, or `<FITPICTURETOBOXPRO>`. If you include all or multiple XML tags, only the first tag is honored.

**SAMPLE XML CODE**

This section provides sample XML code that modifies the content of picture boxes with box IDs 5, 6, and 7.

```xml
<PROJECT>
   <LAYOUT LAYOUTNAME="Layout 1">
      <BOX>
         <ID>5</ID>
         <PICTURE>
            <SCALEACROSS>54</SCALEACROSS>
            <SCALEDOWN>100</SCALEDOWN>
            <OFFSETACROSS>100</OFFSETACROSS>
            <OFFSETDOWN>110</OFFSETDOWN>
            <ANGLE>30</ANGLE>
            <SKEW>30</SKEW>
            <FLIPHORIZONTAL>TRUE</FLIPHORIZONTAL>
            <CENTERPICTURE>TRUE</CENTERPICTURE>
            <FITBOXTOPICTURE>TRUE</FITBOXTOPICTURE>
         </PICTURE>
      </BOX>
      <BOX>
         <ID>6</ID>
         <PICTURE>
            <FITPICTURETOBOXPRO>TRUE</FITPICTURETOBOXPRO>
            <FLIPVERTICAL>TRUE</FLIPVERTICAL>
         </PICTURE>
      </BOX>
   </LAYOUT>
</PROJECT>
```
MODIFYING TEXT

Use the following structure to modify text:

```xml
PROJECT
  LAYOUT LAYOUTNAME="[name of layout]"
  BOX
    ID [ID or name of target box]
    TEXT
      [parameters]
    /TEXT
  /BOX
  /LAYOUT
/PROJECT
```

In the above example, [ID or name of target box] can be determined using Telegraph XTensions software, and [parameters] includes the element types listed in “Modifier parameters for text.” Multiple parameters can be supplied for a single box.
MODIFIER PARAMETERS FOR TEXT
Use the parameters described in this section to modify text in a QuarkXPress project.

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALIGNMENT</td>
<td>Use this parameter to align text within a text box or column. For example, <code>&lt;ALIGNMENT&gt;center&lt;/ALIGNMENT&gt;</code> centers the text in the specified text box. Other valid values for this parameter are right, left, justified, and forced.</td>
</tr>
<tr>
<td>BOLD</td>
<td>Use this parameter to make text bold. For example, <code>&lt;BOLD/&gt;</code> makes all text in the specified text box bold.</td>
</tr>
<tr>
<td>CHARSTYLE</td>
<td>Use this parameter to apply a character style sheet to text. For example, <code>&lt;CHARSTYLE&gt;Code&lt;/CHARSTYLE&gt;</code> applies the “Code” character style sheet to all text in the specified text box.</td>
</tr>
<tr>
<td>CLEAROLDTEXT</td>
<td>Use this parameter to delete all text in the specified text box. For example, <code>&lt;CLEAROLDTEXT&gt;TRUE&lt;/CLEAROLDTEXT&gt;</code> deletes all text from the specified text box.</td>
</tr>
<tr>
<td>COLOR</td>
<td>Use this parameter to change the color of text. For example, <code>&lt;COLOR&gt;Red&lt;/COLOR&gt;</code> applies the color named “Red” to the text in the specified text box.</td>
</tr>
<tr>
<td>FITTEXTTOBOX</td>
<td>Use this parameter to increase or decrease the size of text to fit a text box. For example, <code>&lt;FITTEXTTOBOX&gt;yes&lt;/FITTEXTTOBOX&gt;</code> resizes the text in the specified text box as necessary to make the text fit in the box.</td>
</tr>
<tr>
<td>FONT</td>
<td>Use this parameter to change the font of text. For example, <code>&lt;FONT&gt;Times New Roman&lt;/FONT&gt;</code> applies the font named “Times New Roman” to the text in the specified text box.</td>
</tr>
<tr>
<td>ITALIC</td>
<td>Use this parameter to make text italic. For example, <code>&lt;ITALIC/&gt;</code> makes all text in the specified text box italic.</td>
</tr>
<tr>
<td>PARASTYLE</td>
<td>Use this parameter to apply a paragraph style sheet to text. For example, <code>&lt;PARASTYLE&gt;Intro&lt;/PARASTYLE&gt;</code> applies the “Intro” paragraph style sheet to all text in the specified text box.</td>
</tr>
<tr>
<td>PLAIN</td>
<td>Use this parameter to remove all formatting from text. For example, <code>&lt;PLAIN/&gt;</code> makes all text in the specified text box plain.</td>
</tr>
<tr>
<td>SIZE</td>
<td>Use this parameter to change the point size of text. For example, the tag <code>&lt;SIZE&gt;25&lt;/SIZE&gt;</code> changes the size of the text in the specified text box to 25pt.</td>
</tr>
<tr>
<td>PARAMETER</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------</td>
</tr>
<tr>
<td>STRIKETHRU</td>
<td>Use this parameter to strike through text. For example, &lt;STRIKETHRU&gt;TRUE&lt;/STRIKETHRU&gt; strikes through all text in the specified text box.</td>
</tr>
<tr>
<td>TYPE</td>
<td>Use this parameter to enter new text in a text box. You can use the attributes of text to specify attributes for the text (such as bold, italic, and underline; see the DTD for the full list). For example, &lt;TYPE BOLD=&quot;true&quot; SIZE=&quot;25&quot; COLOR=&quot;Blue&quot; FONT=&quot;Times New Roman&quot;&gt;Hello World!&lt;/TYPE&gt; inserts the text “Hello World!” in the target box in bold, blue, 25-point text in the Times New Roman font. (You can also omit the attributes and use the default formatting attributes for the box.)</td>
</tr>
<tr>
<td>UNDERLINE</td>
<td>Use this parameter to underline text. For example, &lt;UNDERLINE&gt;TRUE&lt;/UNDERLINE&gt; underlines all text in the specified text box.</td>
</tr>
<tr>
<td>WORDUNDERLINE</td>
<td>Use this parameter to underline words in text. For example, &lt;WORDUNDERLINE&gt;TRUE&lt;/WORDUNDERLINE&gt; underlines all individual words in the specified text box.</td>
</tr>
</tbody>
</table>

An alert displays if you specify a font that is unavailable in the project or on the computer where QuarkXPress Server is running or a font size falls outside the font size range as specified in QuarkXPress Server preferences (QuarkXPress Server → Preferences → Modifier).

SAMPLE XML CODE
This section provides sample XML code that modifies text in the text boxes with box IDs 7 and 8.

```
<PROJECT>
    <LAYOUT LAYOUTNAME="Layout 1">
        <BOX>
            <ID>7</ID>
            <TEXT>
                <TYPE BOLD="true" WORDUNDERLINE="true" STRIKETHRU="true" SIZE="40">Hello World!</TYPE>
                <COLOR>Red</COLOR>
                <ALIGNMENT>center</ALIGNMENT>
                <FITTEXTTOBOX>yes</FITTEXTTOBOX>
            </TEXT>
        </BOX>
    </LAYOUT>
</PROJECT>
```
MODIFYING BOXES

Use the following structure to modify boxes:

```xml
<Project>
  <Layout LayoutName="[name of layout]">
    <Box>
      <Id>[ID or name of target box]</Id>
      <Geometry>
        <[parameters]>
      </Geometry>
    </Box>
  </Layout>
</Project>
```

In the above example, [ID or name of target box] can be determined using Telegraph XTensions software, and [parameters] includes the element types listed in “Modifier parameters for boxes.” Multiple parameters can be supplied for a single box.

**MODIFIER PARAMETERS FOR BOXES**

Use the parameters described in this section to modify boxes in a QuarkXPress project. Note that all of these parameters are children of the Geometry parameter.

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALLOWBOXOFFPAGE</td>
<td>Set this parameter to NO to prevent a box from being moved or resized so that any part of the box is outside the page boundaries. The default value is NO.</td>
</tr>
<tr>
<td>ALLOWBOXONTOPASTEBOARD</td>
<td>Set this parameter to NO to prevent a box from being moved or resized so that any part of the box is on the pasteboard. The default value is YES.</td>
</tr>
<tr>
<td>PARAMETER</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>COLOR</td>
<td>Use this parameter to specify the background color of a box. For example, <code>&lt;COLOR&gt;Green&lt;/COLOR&gt;</code> changes the color of a box to the color named “Green.” The color must be defined in the QuarkXPress project or in the QuarkXPress Server Default Colors dialog box (Server/QuarkXPress Server ➔ Document Controls ➔ Colors); otherwise, an alert displays.</td>
</tr>
<tr>
<td>GROWACROSS</td>
<td>Use this parameter to increase the width of a box by a number of points. For example, <code>&lt;GROWACROSS&gt;25&lt;/GROWACROSS&gt;</code> increases the width of a box by 25pt.</td>
</tr>
<tr>
<td>GROWDOWN</td>
<td>Use this parameter to increase the height of a box by a number of points. For example, <code>&lt;GROWDOWN&gt;25&lt;/GROWDOWN&gt;</code> increases the height of a box by 25pt.</td>
</tr>
<tr>
<td>MOVEDOWN</td>
<td>Use this parameter to move a box toward the bottom of the page by a number of points. For example, <code>&lt;MOVEDOWN&gt;25&lt;/MOVEDOWN&gt;</code> moves a box down by 25pt.</td>
</tr>
<tr>
<td>MOVELEFT</td>
<td>Use this parameter to move a box to the left by a number of points. For example, <code>&lt;MOVELEFT&gt;25&lt;/MOVELEFT&gt;</code> moves a box to the left by 25pt.</td>
</tr>
<tr>
<td>MOVERIGHT</td>
<td>Use this parameter to move a box to the right by a number of points. For example, <code>&lt;MOVERIGHT&gt;25&lt;/MOVERIGHT&gt;</code> moves a box to the right by 25pt.</td>
</tr>
<tr>
<td>MOVEUP</td>
<td>Use this parameter to move a box toward the top of the page by a number of points. For example, <code>&lt;MOVEUP&gt;25&lt;/MOVEUP&gt;</code> moves a box up by 25pt.</td>
</tr>
<tr>
<td>POSITION</td>
<td>Use this parameter to specify the position of a box on the page. The POSITION parameter includes the following subparameters: TOP, LEFT, BOTTOM, and RIGHT. Use these subparameters to specify the location of a box's top, left, bottom, and right edges in points.</td>
</tr>
<tr>
<td>RUNAROUND</td>
<td>Use this parameter to control text runaround for a box. Valid values for this parameter are NONE, ITEM, AUTOIMAGE, and EMBEDDEDPATH. More details about this parameter are provided after this table.</td>
</tr>
<tr>
<td>PARAMETER</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>SHRINKACROSS</td>
<td>Use this parameter to decrease the width of a box by a number of points. For example, <code>&lt;SHRINKACROSS&gt;25&lt;/SHRINKACROSS&gt;</code> decreases the width of a box by 25pt.</td>
</tr>
<tr>
<td>SHRINKDOWN</td>
<td>Use this parameter to decrease the height of a box by a number of points. For example, <code>&lt;SHRINKDOWN&gt;25&lt;/SHRINKDOWN&gt;</code> decreases the height of a box by 25pt.</td>
</tr>
<tr>
<td>STACKINGORDER</td>
<td>Use this parameter to specify the stacking order of the box on the page. Valid values for this parameter are <code>SEND_BACKWARD</code>, <code>SEND_TO_BACK</code>, <code>BRING_FORWARD</code>, and <code>BRING_TO_FRONT</code>. For example, <code>&lt;STACKINGORDER&gt;BRING_TO_FRONT&lt;/STACKINGORDER&gt;</code> brings a box in front of all other items on the page.</td>
</tr>
<tr>
<td>SUPPRESSOUTPUT</td>
<td>Use this parameter to control whether boxes are rendered. Valid values are <code>true</code> and <code>false</code>.</td>
</tr>
</tbody>
</table>

The `RUNAROUND` parameter includes a subparameter named `RUNAROUNDTYPE`, which lets you specify a runaround type. The valid values for this subparameter are `NONE`, `ITEM`, `AUTOIMAGE`, and `EMBEDDED_PATH`.

The `ITEM` runaround type includes the following subparameters: `TOP`, `LEFT`, `BOTTOM`, and `RIGHT`. The valid range for these parameters range is between –288pt and 288pt. For example, the following code sets the top, left, bottom, and right runaround to 4pt.

```xml
<RUNAROUND>
  <RUNAROUNDTYPE>ITEM</RUNAROUNDTYPE>
  <TOP>4</TOP>
  <RIGHT>4</RIGHT>
  <LEFT>4</LEFT>
  <BOTTOM>4</BOTTOM>
</RUNAROUND>
```

If you specify an out-of-range value for `TOP`, `LEFT`, `BOTTOM`, or `RIGHT`, the parameters is automatically set to the default minimum or maximum value.

The `AUTOIMAGE` and `EMBEDDED_PATH` parameters allow you to specify an `OUTSET` value. The valid range for `OUTSET` is between –xpt and 288pt, where x is a variable depending on the runaround of picture. For example, the following code sets the outset value to 4pt.

```xml
<OUTSET>4</OUTSET>
```
If you specify an out-of-range value for `OUTSET`, the parameters is automatically set to the default minimum or maximum value.

QuarkXPress Server does not support the `AUTOIMAGE` and `EMBEDDEDPATH` runaround types unless a picture has been placed in the box. In addition, QuarkXPress Server does not support the `EMBEDDEDPATH` runaround type unless the picture in the box has a clipping path.

SAMPLE XML CODE
This section provides sample XML code that modifies the box with box IDs 7.

```xml
<PROJECT>
  <LAYOUT LAYOUTNAME="Layout 1">
    <BOX>
      <ID>7</ID>
      <GEOMETRY>
        <MOVEUP>25</MOVEUP>
        <MOVERIGHT>25</MOVERIGHT>
        <MOVELEFT>25</MOVELEFT>
        <MOVEDOWN>25</MOVEDOWN>
        <GROWDOWN>25</GROWDOWN>
        <GROWACROSS>25</GROWACROSS>
        <SHRINKACROSS>25</SHRINKACROSS>
        <SHRINKDOWN>25</SHRINKDOWN>
        <RUNAROUND>
          <RUNAROUNDTYPE>ITEM</RUNAROUNDTYPE>
          <TOP>5</TOP>
          <LEFT>10</LEFT>
          <BOTTOM>7</BOTTOM>
          <RIGHT>12</RIGHT>
        </RUNAROUND>
      </GEOMETRY>
    </BOX>
  </LAYOUT>
</PROJECT>
```
CREATING AND DELETING BOXES

Use the following structure to create boxes:

```xml
<PROJECT>
  <LAYOUT LAYOUTNAME="[name of layout]">
    <CREATEBOX BOXTYPE="PICT">
      <ID>[ID or name of target box]</ID>
      <CREATEPOSITION>
        <PAGE>[page number]</PAGE>
        <TOP>[top edge position]</TOP>
        <LEFT>[left edge position]</LEFT>
        <BOTTOM>[bottom edge position]</BOTTOM>
        <RIGHT>[right edge position]</RIGHT>
      </CREATEPOSITION>
    </CREATEBOX>
  </LAYOUT>
</PROJECT>
```

Use the following structure to delete boxes:

```xml
<PROJECT>
  <LAYOUT LAYOUTNAME="[name of layout]">
    <DELETEBOX>
      <ID>[ID or name of target box]</ID>
    </DELETEBOX>
  </LAYOUT>
</PROJECT>
```

In the above example, [ID or name of target box] can be determined using Telegraph XTensions software, and [parameters] includes the element types listed in “Modifier parameters for boxes.” Multiple parameters can be supplied for a single box.

**SAMPLE XML CODE**

This section provides sample XML code that creates and then deletes a box with box ID 7.

```xml
<PROJECT>
  <LAYOUT LAYOUTNAME="Layout 1" />
  <CREATEBOX BOXTYPE="PICT">
    <ID>7</ID>
    <CREATEPOSITION>
```

```xml
```
IMPORTING DATA
Modifier XTensions software lets clients import text or text strings into text boxes within a QuarkXPress project using XML. Clients can also use Modifier XTensions software to import pictures into picture boxes.

Use the following structure to import a text file into a box:

```xml
<PROJECT>
  <LAYOUT LAYOUTNAME="[name of layout]">
    <BOX>
      <ID>[ID or name of target box]</ID>
      <CONTENT>file: [file path]</CONTENT>
      <[parameters]>
    </BOX>
  </LAYOUT>
</PROJECT>
```

Use the following structure to import a picture file or picture file into a box:

```xml
<PROJECT>
  <LAYOUT LAYOUTNAME="[name of layout]">
    <BOX>
      <ID>[ID or name of target box]</ID>
      <CONTENT>[file path]</CONTENT>
      <[parameters]>
    </BOX>
  </LAYOUT>
</PROJECT>
```
Use the following structure to import a text string into a text box:

```xml
<PROJECT>
  <LAYOUT LAYOUTNAME="{name of layout}">
    <BOX>
      <ID>{ID or name of target box}</ID>
      <CONTENT>Hello, World!</CONTENT>
    </BOX>
  </LAYOUT>
</PROJECT>
```

In the above example, `{ID or name of target box}` can be determined using Telegraph XTensions software, and `{parameters}` includes the element types listed in “Modifier parameters for data import.” Multiple parameters can be supplied for a single box.

MODIFIER PARAMETERS FOR DATA IMPORT

Use the parameters described in this section to import data in a QuarkXPress project.

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTENT</td>
<td>Use <code>CONTENT</code> to import a text file, a picture file, or a text string.</td>
</tr>
<tr>
<td>CONVERTQUOTES</td>
<td>For text boxes only. Use <code>CONVERTQUOTES</code> to convert straight quotation marks in imported text into type-setter's quotation marks (as specified in the Interactive tab of the QuarkXPress Server Preferences dialog box). Setting this parameter to <code>YES</code> also converts double hyphens into em dashes. The default value for this parameter is <code>YES</code>.</td>
</tr>
<tr>
<td>FONTNAME</td>
<td>For text boxes only. Use <code>FONTNAME</code> to apply a specific font to the text that is imported. For example, <code>&lt;FONTNAME&gt;Arial&lt;/FONTNAME&gt;</code> applies the Arial font to the imported text. If the specified font is not available to QuarkXPress Server, the default font is applied.</td>
</tr>
<tr>
<td>INCLUDESTYLESHETES</td>
<td>For text boxes only. Use <code>INCLUDESTYLESHETES</code> to allow the addition of style sheets from the imported text file to the target project. The default value for this parameter is <code>YES</code>.</td>
</tr>
</tbody>
</table>
SAMPLE XML CODE
Following is a sample of XML code for importing data into picture and text boxes.

```xml
<PROJECT>
  <LAYOUT LAYOUTNAME="Layout 1">
    <BOX>
      <ID>PictBox</ID>
      <CONTENT>c:\untitled.bmp</CONTENT>
    </BOX>
    <BOX>
      <ID>text box1</ID>
      <CONTENT>file:c:\new.txt</CONTENT>
      <CONVERTQUOTES>NO</CONVERTQUOTES>
      <INCLUDESTYLESHEETS>NO</INCLUDESTYLESHEETS>
      <FONTNAME>Arial</FONTNAME>
    </BOX>
    <BOX>
      <ID>text box2</ID>
      <CONTENT>This is the text to be imported.</CONTENT>
    </BOX>
  </LAYOUT>
</PROJECT>
```

SAVING PROJECTS
Modifier XTensions software lets clients save modified QuarkXPress projects in any supported format to any location on the network (and also in the QuarkXPress Server document pool). You can specify a format for the saved QuarkXPress project, or leave it unspecified to use the format specified defined in the QuarkXPress Server configuration.

Use the following structure to save projects:

```xml
<PROJECT>
  <SAVEAS NEWNAME="[new file name]"
    PATH="[path where project should be saved]"
    SAVETOPOOL="[true | false]"
    REPLACE="[true | false]"
  />
</PROJECT>
```
If the operation is successful, an alert confirms that the QuarkXPress project was saved in the QuarkXPress Server document pool or in the specified location. If the operation fails (for example, if the target directory has read-only permissions), an error alert displays.

**MODIFY ATTRIBUTES FOR SAVING**
Use the attributes described in this section to save copies of QuarkXPress projects.

<table>
<thead>
<tr>
<th>ATTRIBUTE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEWNAME</td>
<td>Use this attribute to save a QuarkXPress project in QuarkXPress Server. For example, NEWNAME=Customer1.qxp saves the project as “Customer1.qxp.”</td>
</tr>
<tr>
<td>PATH</td>
<td>Use this attribute to specify the location for saving the QuarkXPress project on the QuarkXPress Server computer. For example, PATH=HDD:temp saves the project in the HDD:temp directory.</td>
</tr>
<tr>
<td>REPLACE</td>
<td>Use this attribute to permit or prevent the overwriting of an existing QuarkXPress project in the specified location. For example, if REPLACE=FALSE and NEWNAME=“Project.qxp”, and a file named “Project.qxp” already exists in the specified location, the new file is saved with a number after the file name (“Project1.qxp”) to prevent overwriting. By default, the value for replace is TRUE.</td>
</tr>
<tr>
<td>SAVETOPOOL</td>
<td>Use this attribute to save the QuarkXPress project in the QuarkXPress Server document pool. For example, SAVETOPOOL=YES saves the file in the document pool. By default, the value for SAVETOPOOL is YES.</td>
</tr>
</tbody>
</table>

**DTD FOR MODIFIER XTENSIONS SOFTWARE**
The DTD for XML calls accepted by Modifier XTensions software is as follows:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!ELEMENT PROJECT (SAVEAS?, LAYOUT*)>
<!ELEMENT SAVEAS EMPTY>
<!ATTLIST SAVEAS
  NEWNAME CDATA #IMPLIED
  PATH CDATA #IMPLIED
  SAVETOPOOL (true | false) "true"
  REPLACE (true | false) "true"
>
<!ELEMENT LAYOUT (BOX | CREATEBOX | DELETEBOX)>```

```xml
<!ATTLIST LAYOUT
  MODIFIER XTENSIONS SOFTWARE
```
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DECONSTRUCTOR XTENSIONS SOFTWARE

You can use Deconstructor Server XTensions software to retrieve an XML representation of the boxes in a QuarkXPress project.

Deconstructor XTensions software does not return XML representations of lines.

When Deconstructor XTensions software deconstructs a table, each cell is represented as a text or picture box.

Deconstructor XTensions software adds a Deconstructor pane to the Preferences dialog box (QuarkXPress Server → Preferences). For more information, see “Server preferences” in Chapter 2, “The QuarkXPress Server user interface.”

USING DECONSTRUCTOR XTENSIONS SOFTWARE
To retrieve an XML representation of a project, use the deconstruct namespace:

http://server:port/deconstruct/path/projectname

XML code representing the project displays in the browser. For example:

<DOCVERSION>6.0</DOCVERSION>
<DOCPLATFORM>Windows</DOCPLATFORM>
<LAYOUT>
In the above snippet of code, the `<DOCVERSION>` element contains the version of QuarkXPress in which the project was created, and the `<DOCPLATFORM>` element contains the name of the operating system in which the project was last saved. The `<LAYOUT>` element contains a layout, and within that layout, the `<FONTUSAGE>` element contains descriptions of the fonts used in the layout.

The XML returned for picture boxes, text boxes, and grouped boxes depends on the Deconstructor XTensions software preferences. For more information, see “Server preferences” in Chapter 2, “The QuarkXPress Server user interface.”

QuarkXPress Server uses the `CONTENTTYPE` attribute to differentiate between different types of boxes. There are three content types for boxes: `CT_TEXT` for text boxes, `CT_PICT` for picture boxes, and `CT_GROUP` for grouped boxes. For example, the element `<BOX CONTENTTYPE="CT_TEXT">` describes a text box.

The following sample XML code describes a picture box named “pic1”:

```xml
<BOX CONTENTTYPE="CT_PICT">
  <IDENTITY>
    <UNIQUEID>5</UNIQUEID>
    <BOXNAME>pic1</BOXNAME/>
    <SPREADNUM>1</SPREADNUM>
    <PAGE>1</PAGE>
    <LAYER>Default</LAYER>
  </IDENTITY>
  <PICTUREEFFECTS>FALSE</PICTUREEFFECTS>
</BOX>
```
In the above snippet of code, the <LAYER> element contains the name of the layer on which the picture box exists, the <PICTUREEFFECTS> element specifies whether the picture uses QuarkVista effects, and the <POSITION> element describes the coordinates of the box in points.

The <DATA> element contains the name of the picture in the picture box if you uploaded the project to the document pool with the Pictures option checked (Utilities → Upload Template → Picture); otherwise, this element shows the full path of the picture file.

The following sample XML code describes a text box named “txt1”:

```xml
<BOX CONTENTTYPE="CT_TEXT">
  <IDENTITY>
    <UNIQUEID>7</UNIQUEID>
    <BOXNAME>txt1</BOXNAME>
    <SPREADNUM>1</SPREADNUM>
    <PAGE>1</PAGE>
    <LAYER>new layer</LAYER>
  </IDENTITY>
  <POSITION>
    <TOPLEFTX>133.228</TOPLEFTX>
    <TOPLEFTY>219.001</TOPLEFTY>
    <BOTTOMRIGHTX>373.504</BOTTOMRIGHTX>
    <BOTTOMRIGHTY>312.751</BOTTOMRIGHTY>
  </POSITION>
  <TEXTOVERFLOW>FALSE</TEXTOVERFLOW>
  <DATA>
    <TEXTDATA>
      <FONT>Times New Roman</FONT>
      <SIZE>12</SIZE>
      <COLOR>Black</COLOR>
    </TEXTDATA>
  </DATA>
</BOX>
```

DECONSTRUCTOR XTENSIONS SOFTWARE

CHAPTER 4: XTENSIONS SOFTWARE
Good morning, and good night.

In the above snippet of code, the <DATA> element describes the contents of the text box. The <TEXTOVERFLOW> element specifies whether the content of the text box has overflowed.

The following sample XML code includes <STYLESHEETLIST> elements for a text box named “txt2”:

```
<DATA>
  <STYLESHEETLIST>
    <STYLESHEET NAME="Normal" TYPE="Paragraph">
      Good morning.
    </STYLESHEET>
    <STYLESHEET NAME="Normal" TYPE="Paragraph">
      Good afternoon.
    </STYLESHEET>
  </STYLESHEETLIST>
</DATA>
```
Deconstructor XTensions software generates a new `<TEXTDATA>` element every time it encounters distinct text properties applied to text in a text box. Similarly, Deconstructor XTensions software generates a new `<STYLESHEETLIST>` element for each distinct style sheet applied to text in a text box.

The following sample XML code includes both `<TEXTDATA>` and `<STYLESHEETLIST>` elements for a text box named “txt3”:

```
<BOX CONTENTTYPE="CT_TEXT">
  <IDENTITY>
    <UNIQUEID>9</UNIQUEID>
    <BOXNAME>txt3</BOXNAME>
    <SPREADNUM>1</SPREADNUM>
    <PAGE>1</PAGE>
    <LAYER>Default</LAYER>
  </IDENTITY>
  <POSITION>
    <TOPLEFTX>406.504</TOPLEFTX>
    <TOPLEFTY>286.299</TOPLEFTY>
    <BOTTOMRIGHTX>551.728</BOTTOMRIGHTX>
    <BOTTOMRIGHTY>368.504</BOTTOMRIGHTY>
  </POSITION>
  <TEXTOVERFLOW>TRUE</TEXTOVERFLOW>
  <DATA>
    <STYLESHEETLIST>
      <STYLESHEET NAME="New Style Sheet" TYPE="Paragraph">
        <TEXTDATA>
          <FONT>Arial</FONT>
          <SIZE>12</SIZE>
          <COLOR>Black</COLOR>
          <SHADE>100%</SHADE>
          <TYPE>PLAIN</TYPE>
          one
        </TEXTDATA>
      </STYLESHEET>
    </STYLESHEETLIST>
  </DATA>
</BOX>
```
The following sample XML code describes a grouped box named “group”:

```xml
<BOX CONTENTTYPE="CT_GROUP">
  <IDENTITY>
    <UNIQUEID>28</UNIQUEID>
    <BOXNAME>group</BOXNAME>
    <SPREADNUM>2</SPREADNUM>
    <PAGE>2</PAGE>
  </IDENTITY>
  <POSITION>
    <TOPLEFTX>144.003</TOPLEFTX>
  </POSITION>
</BOX>
```
In the above code snippet, the `<POSITION>` element contains the coordinates of a grouped box in points. The `<CHILD CONTENTTYPE>` element indicates the type of box within the grouped box. The `<DATA>` element contains information about box content.
USING QUARKVISTA XTENSIONS SOFTWARE

A QuarkVista *preset file* is a file that contains a list of one or more QuarkVista picture effects and instructions for applying those effects. You can use QuarkVista XTensions software to apply and remove preset files containing QuarkVista effects to pictures in picture boxes before rendering a project.

QuarkVista effects work only with projects that were last saved in QuarkXPress 6.0 or later.

CREATING PRESET FILES

To create a preset file, open a project in a copy of QuarkXPress that is running QuarkVista XTensions software, select a picture box that contains a picture, apply effects to the picture, and then click the *Save Preset* button on the *Picture Effects* palette. The effects you apply are saved in a preset (.vpf) file at the location you indicate. (By default, preset files are stored in the location specified in the *Picture Effects* pane of the *Preferences* dialog box.)

To use preset files in QuarkXPress Server, copy them to the folder indicated by the *Picture Effects Presets* field in the *Picture Effects* pane of the *QuarkXPress Server Preferences* dialog box (*QuarkXPress Server* menu).

USING QUARKVISTA XTENSIONS SOFTWARE

To indicate which preset file should be applied, use the *applyvistaeffect* parameter. To indicate which picture box the preset file should be applied to, use the *vistabox* parameter. The URL syntax is as follows:

```
http://server:port/namespace/path/projectname?applyvistaeffect=preset file name&gt;&vistabox=picture box name
```

For example, consider the following URL:

```
http://QXPServer7:8080/abc.qxp?applyvistaeffect=color.vpf&amp;vistabox=pb2
```

In this example, *color.vpf* is the name of the preset file containing the QuarkVista effects, and *pb2* is the name of the box to which the preset file is applied.

You can apply the same preset file to multiple pictures using a single URL. For example, consider the following URL:

```
http://QXPServer7:8080/abc.qxp?applyvistaeffect=color.vpf&amp;vistabox=p1,p2,p3
```
Here, the color.vpf preset is applied to the picture boxes named p1, p2, and p3.

If the picture in the target box is not compatible with the QuarkVista effects in the preset file, an alert displays in the Web browser. If Log Errors is enabled (QuarkXPress Server → Server Configurations → Logging tab), an entry is made in the QuarkXPress Server error log file.

If the specified preset file that contains the QuarkVista effects is not in the preset location, an alert displays in the Web browser. If Log Errors is enabled (QuarkXPress Server → Server Configurations → Logging tab), an entry is made in the QuarkXPress Server error log file.

If you specify multiple picture boxes in a URL, and the picture in one of those boxes is not compatible with the QuarkVista effects in the preset file, the effects are applied to the remaining files.

### REMOVING QUARKVISTA EFFECTS

Clients can remove all QuarkVista effects applied to images using the deletevistaeffect parameter. Consider the following example:

`http://QXPServer7:8080/abc.qxp?deletevistaeffect=pb2`

This URL removes any QuarkVista effects applied to the picture in the picture box named pb2.

Clients can remove a QuarkVista effect applied to multiple images from a single URL. Consider the following example:

`http://QXPServer7:8080/abc.qxp?deletevistaeffect=p1,p2,p3`

This URL removes any QuarkVista effects applied to pictures in the picture boxes named p1, p2, and p3.

If you apply and remove QuarkVista effects in the same URL, the deletevistaeffect parameter takes precedence.

If you open a project that uses QuarkVista effects, but QuarkVista XTensions software is not enabled, the QuarkVista effects are ignored. If Log Errors is enabled (QuarkXPress Server → Server Configurations → Logging tab), an entry is made in the QuarkXPress Server error log file.
You can use QuarkXPress Server Layer XTensions software to control the visibility of specific layers in a rendered QuarkXPress project. You can also add layers, delete layers, edit layer attributes, and control whether layers are rendered.

When you use the *getdocinfo* namespace, QuarkXPress Server returns information about items on all of the layers in the QuarkXPress project, including layers that are not visible.

QuarkXPress Server Layers XTensions software adds a **Layers** pane to the **Preferences** dialog box (**QuarkXPress Server → Preferences**). For more information, see “Server preferences” in Chapter 2, “The QuarkXPress Server user interface.”

Clients can use the *layer* parameter to specify a layer (even a hidden layer) to be rendered. For example, the URL [http://QXPServer7:8080/doc.qxp?layer=layer1](http://QXPServer7:8080/doc.qxp?layer=layer1) renders only the layer named “layer1” in the project named “doc.qxp.”

Clients can specify more than one layer in a single URL. For example, the URL [http://QXPServer7:8080/doc.qxp?layer=layer1,layer2](http://QXPServer7:8080/doc.qxp?layer=layer1,layer2) renders the layers named “layer1” and “layer2.”

If **Suppress Output** is selected for a layer, QuarkXPress Server does not render that layer when producing PDF, EPS, or PostScript files.

The following parameters work with QuarkXPress Server Layers XTensions software.

**ADDLAYER**
Use the *addlayer* parameter to add a layer in a QuarkXPress project. For example, the URL [http://QXPServer7:8080/project.qxp?addlayer=a1](http://QXPServer7:8080/project.qxp?addlayer=a1) adds a new layer named “a1” to the project named “project.qxp.” You can set the attributes of a new layer by including additional parameters in the URL; for example, the URL [http://QXPServer7:8080/project.qxp?addlayer=newlayer&visible=no&suppressoutput=yes](http://QXPServer7:8080/project.qxp?addlayer=newlayer&visible=no&suppressoutput=yes) adds a new layer, makes the layer invisible, and suppresses output for the layer.

**DELETELAYER**
Use the *deletelayer* parameter to delete a layer from a QuarkXPress project. For example, the URL [http://QXPServer7:8080/project.qxp?deletelayer=layer2](http://QXPServer7:8080/project.qxp?deletelayer=layer2) deletes the layer named “layer2” from the project named “project.qxp.”
ALLLAYERS
Use the `alllayers` parameter to render all of the layers in a project. For example, the URL `http://QXPServer7:8080/project.qxp?alllayers` renders all layers in the project named “project.qxp,” regardless of whether they are visible or suppressed.

LAYERATTRIBUTE
Use the `layerattribute` parameter to modify layer attributes. For example, the URL `http://QXPServer7:8080/project.qxp?layerattribute=layer1&name=newlayer1` changes the name of the layer named “layer1” to “newlayer1.” Layer attributes are `name`, `visible`, `locked`, `suppressoutput`, and `keeprunaround`.

If you try to change a layer attribute that is controlled by a different layer attribute, the request is ignored. For example, the request `http://QXPServer7:8080/project.qxp?layerattribute=layer1&visible=no&suppressoutput=no` is ignored because a layer's output is automatically suppressed when the layer is not visible.
Chapter 5: Telegraph XTensions software

Unlike the other XTensions software described in this guide, Telegraph XTensions software works with QuarkXPress, rather than with QuarkXPress Server. You can use Telegraph XTensions software to create QuarkXPress projects that can serve as templates in QuarkXPress Server. Using Telegraph XTensions software, you can assign unique names to individual items, define server caching parameters, and upload the template directly to a QuarkXPress Server computer.

This chapter explains how to use Telegraph XTensions software. It is assumed that you are already familiar with the functionality and user interface of QuarkXPress.

SETTING TELEGRAPH PREFERENCES

Telegraph XTensions software adds the QuarkXPress Server pane to the QuarkXPress Preferences dialog box (QuarkXPress/Edit menu). You can use this pane to configure settings for QuarkXPress Server templates, specify where to store your projects on the server, and control how projects are cached.
ADDING A SERVER

The **Server Setup** area lists servers that are potential repositories for QuarkXPress projects. You can add, edit, and remove servers in this list.

To add a server to the **Server Setup** list:

1. Click **Add**. The **Add Server** dialog box displays.

   ![Add Server dialog box](image)

2. Enter an identifying name for the server in the **Server Name** field.

3. Enter the server’s address in the **Address** field. You can enter either an IP address or the name of the server.

4. Enter the server’s port number in the **Port** field. The default port number is 8080. Valid values are from 1 to 65535.

5. In the **Document Pool Path** field, enter the path to the document pool directory on the server, or to a subdirectory within the document pool. If you leave this field blank, the path defaults to the document pool directory path specified in the **QuarkXPress Server Document Root** field (QuarkXPress Server → Server Configuration → Server tab).

   If you enter a folder path that does not exist, QuarkXPress Server can create the folders in the path when you upload the template to a QuarkXPress Server. To create folders when you upload, check **Generate Hierarchy On Document Upload** in the **Server** tab of the QuarkXPress Server **Server Configuration** dialog box (QuarkXPress Server → Server Configuration) before you upload the template to the server.

6. Click **OK**.

EDITING SERVER PROPERTIES

To edit the properties of a server in the **Server Setup** list, select the server in the **Server Setup** area, and then click **Edit**. The **Edit Server** dialog box displays.

DELETING A SERVER

To remove a server from the **Server Setup** list, select the server and click **Remove**.
SETTING DOCUMENT CACHE PREFERENCES

Use the Document Caching area of the QuarkXPress Server pane to control caching options:

1. Click one of the following options in the Document Caching area:
   - **Never Cache**: Specifies that projects checked in from this copy of QuarkXPress should never be served from a cache (in other words, they should always be rendered when requested).
   - **Cache Until Flushed**: Specifies that projects checked in from this copy of QuarkXPress should be kept in the cache until the cache is flushed or until the cache has been filled. If a project is cached until the cache is full, the project is then flushed from the cache as necessary.
   - **Always Revalidate**: Specifies that before using the cached version of a project checked in from this copy of QuarkXPress, QuarkXPress Server should verify that the project has not changed.
   - **Freshness Lifetime**: Specifies that projects checked in from this copy of QuarkXPress should remain in the cache for a specific length of time (in seconds).

Specify the cache size in the Server tab of the QuarkXPress Server Server Configuration dialog box (QuarkXPress Server menu).

2. To allow projects checked in from this copy of QuarkXPress to remain open on the server after it has been served, check **Allow Document to Stay Open**.

3. To load projects checked in from this copy of QuarkXPress into the server memory cache, check **Allow Document in Memory Cache**.

USING TELEGRAPH XTENSIONS SOFTWARE

Once you have configured preferences for Telegraph QuarkXTensions software, you can begin creating QuarkXPress Server templates. After you complete a template, Telegraph XTensions software can upload the file to a QuarkXPress Server computer.

IDENTIFYING QUARKXPRESS ITEMS

Use the Box Identifiers palette to specify identification information for individual items within a project. To display this palette, choose Window → Show Box Identifiers.

- To view the name and internal box ID of a text box, picture box, line, or text path, select the item with the Item or Content tool.
• To view the name and internal box ID of a table, select the table with the **Item** tool.
• To view the name and internal box ID of an individual table cell, select the cell using the **Content** tool.

**ASSIGNING ITEM NAMES**
You can assign independent names to individual items, and then use these names to reference the items through QuarkXPress Server. To assign a name to an item, select the item and enter a name in the **Box Name** field of the **Box Identifiers** palette. You can enter a maximum of 31 characters in this field.

**VIEWING BOX ID NUMBERS**
Each QuarkXPress item has an identification number that you can use when you want to render individual project items in QuarkXPress Server. To display this identification number, select the item and display the **Box Identifiers** palette (**Window → Show Box Identifiers**). The number displays in the **Internal Box ID** field in the upper right corner of the palette.

In a chain of text boxes, all boxes use the same **Box Name**. However, each box has a unique **Internal Box ID** number.

**UPLOADING TEMPLATES**
Telegraph QuarkXTensions software can upload a project to the QuarkXPress Server computer in one simple step. You can also upload any required pictures and fonts, if you choose to collect the fonts and pictures during the upload. To upload the active project:

1. Choose **Utilities → Upload Template**. The **Upload Template** dialog box displays.

If you have edited the project since you last saved it, QuarkXPress prompts you to save the project.
2 Choose a server from the Server drop-down menu. This drop-down menu includes the servers listed in the QuarkXPress Server pane of the Preferences dialog box (QuarkXPress/Edit menu).

3 If you specified a directory path for the server, that path automatically displays in the Directory Path field. If you did not specify a directory path in the preferences, this field remains blank. This path defaults to the document pool directory specified in QuarkXPress Server.

4 If you are uploading to QuarkXPress Server, and you have configured that server to require authentication, enter a valid user name and password in the User Name and Password fields. (If the QuarkXPress Server application does not require authentication, leave these fields empty.)

To specify authentication information for a QuarkXPress Server application, display the HTTP tab of the QuarkXPress Server Preferences dialog box, check the Realm Verif. for Admin. Requests box and enter a user name and password.

5 To collect and upload fonts used by the project, check Fonts.

6 To collect and upload pictures used by the project, check Pictures. This will upload high- or low-resolution pictures that are linked to or embedded in the project.

If picture files are missing or have been modified since they were imported into the project, an alert displays. For more information about missing or modified picture files, see “Uploading Missing or Modified Pictures,” below.

7 Click OK.
If you check Fonts, an alert reminds you of possible restrictions regarding copying font software. Click OK to continue uploading the project with the fonts, click Do Not Collect Fonts to upload the project without the fonts, or click Cancel to stop the upload.

The Upload Status window displays a progress bar that displays the status of the upload. When the upload is complete, a message notifies you whether the project uploaded successfully.

UPLOADING MISSING OR MODIFIED PICTURES
If the picture files linked to the project are missing or have been modified since they were imported into the project, an alert displays at upload. Choose from among the following options:

• To continue the upload with low-resolution versions of the pictures, click OK.
• To stop the upload, click Cancel.
• To locate missing pictures or update modified pictures, click List Pictures.

If you click List Pictures, the Missing/Modified Pictures dialog box displays:

• To view a picture in the project, select the picture's name in the list and click Show.
• To locate a missing picture file, select it and click Update. The Find dialog box displays. Locate and choose the appropriate file, and then click Open.
• To update a modified picture file, click Update. Every instance of the modified picture in the project is updated.
• When OK displays in the Status column for each picture, click Collect. If the status of any picture is still Missing or Modified when you click Collect, that picture file will not be uploaded, but a low-resolution preview will remain in the project.
• To stop the upload and return to the project window, click Cancel.
Chapter 6: QuarkXPress Server Monitor

QuarkXPress Server Monitor monitors the status of the QuarkXPress Server application. If the QuarkXPress Server application fails, QuarkXPress Server Monitor sends a notification to the system administrator and attempts to restart QuarkXPress Server.

RUNNING QUARKXPRESS SERVER MONITOR

To launch QuarkXPress Server Monitor on Mac OS, display a terminal window, navigate to the “QuarkXPressServerMonitor” folder (at the root of the QuarkXPress Server application folder), and then enter the command `sh QuarkXPressServerMonitor.sh`.

To launch QuarkXPress Server Monitor on Windows, double-click the “QuarkXPressServerMonitor.bat” file. This file can be found in the “QuarkXPressServerMonitor” folder, which is at the root of the QuarkXPress Server application folder.

![QuarkXPress Server Monitor window]

CONFIGURING QUARKXPRESS SERVER MONITOR

To configure QuarkXPress Server Monitor:

1. In the QuarkXPress Server Monitor main window, click Settings. The application settings window displays.
2. Click the QuarkXPress Server Configuration tab.
3 For each instance of QuarkXPress Server you want to monitor, click Add to display the Add QuarkXPress Server Info dialog box and then do the following:

- In the Server Address field, enter the name or IP address of a copy of QuarkXPress Server to be monitored.
- In the Port Number field, enter the port number of the QuarkXPress Server.

Click OK. You can add up to eight servers to the list.

Click Modify to modify the attributes of an existing server. Click Remove to delete a server from the list.

4 Click the EMail Settings tab and enter the name or IP address of an e-mail server in the SMTP Server Name or IP Address field.
5 For each e-mail address to send an e-mail message to if QuarkXPress Server stops running, click Add to display the Add EMail Address dialog box, enter the address in the EMail Address field, and then click OK. You can add a maximum of eight e-mail addresses to the list.

Add EMail Address dialog box

Click Modify to modify an existing e-mail address. Click Remove to delete an address from the list.

6 Click the Preferences tab and configure QuarkXPress Server Monitor preferences, as follows:

- **Query Interval**: The time interval between status checks. Choose Seconds or Minutes from the corresponding drop-down menu. The default value is 1 minute.

  The query interval depends on the average size of the rendered document. If the average size is less than 1MB, set the query interval to 1 to 2 minutes. If it is between 1MB and 5MB, set the query interval to 2 to 3 minutes. For documents greater than 5MB, Quark technical staff recommends a query interval of 3 to 4 minutes.

- **Number of retries**: The number of times QuarkXPress Server Monitor checks the status of QuarkXPress Server when it receives no response from the initial query. The default value is 10.

  The optimum number of retries depends on the load on the servers.

- **Test Document**: The name of a test QuarkXPress project to be used for the determination of server status.

  The test document must exist in the document pool of each of the monitored QuarkXPress Server applications.

- **Delay on Failure**: Check Use Delay in this area to make the monitor wait before resuming the monitoring process after the detection of a server failure. Enter the delay value in the corresponding field and choose Minutes or Seconds from the drop-down menu. The default delay value is 3 minutes.
• **Automatic Shut Down Preferences**: Check this box if you want QuarkXPress Server to periodically shut down and restart. To specify how many minutes should pass between restarts, enter a value in the *Shut Down Interval* field. To ensure that at least one server is always up, enter a value in the *Multiple QuarkXPress Server Shut Down Differential* field; after one server restarts, this many minutes will pass before another server is restarted.

![Preferences tab of QuarkXPress Server Monitor window](image)

**VIEWING QUARKXPRESS SERVER STATUS**

The QuarkXPress Server Monitor main window displays the status of the monitored QuarkXPress Server applications. Possible statuses are as follows:

- **Connecting**: The server has just been added and QuarkXPress Server Monitor is awaiting its first response
- **Running**: All components are running normally
- **Rendering Failed**: Test document rendering failed, but the QuarkXPress Server application is responding
- **Unable to Ping**: Communication with the QuarkXPress Server application failed
- **Under Heavy Load**: The server is receiving many requests
- **Server Not Responding**: The QuarkXPress Server application has not responded to the initial query or to any of the retries
- **Missing Test Document**: The test document is not present in the document pool
- **Server Failure**: QuarkXPress Server Monitor is unable to determine the status of the QuarkXPress Server application
• **Restarting Slave**: QuarkXPress Server Monitor is restarting the QuarkXPress Server subrenderers

• **Host Unreachable**: QuarkXPress Server Monitor is unable to find the host server

• **Restarting Server**: QuarkXPress Server Monitor is restarting the QuarkXPress Server application

In case of a QuarkXPress Server failure, QuarkXPress Server Monitor restarts QuarkXPress Server using the “keepalive.sh” (Mac OS) or “keepalive.bat” (Windows) file. However, QuarkXPress Server Monitor can restart QuarkXPress Server only if the server application was originally launched using these scripts.
Glossary

DOCUMENT POOL
The document pool contains the projects that are available for rendering. By default, the document pool is a collection of discrete files or folders in a specific, identified folder located on the local server or on a connected network drive. When some type of external document provider (such as a content management system or database) is used, projects are not stored in the local document pool.

DOCUMENT PROVIDER
The document provider is the source for projects that QuarkXPress Server renders. The most basic document provider is the local document pool. Other document providers can be enabled through the creation of Server XTensions software, which establish a virtual file system. Server XTensions software can register for control of a specified range of the QuarkXPress Server namespace. When a project is requested from this range, server XTensions software retrieves the file from the specified source and hands it to the server. Examples of document providers include content management systems such as Quark Digital Media Server, a standard database, or a live data feed from an HTTP agent.

LAYOUT
A layout is a sequence of same-sized pages in a QuarkXPress project. A project can contain one or more layouts. A layout is functionally equivalent to a QuarkXPress document in QuarkXPress 5 and earlier.

PROJECT
A QuarkXPress project is a file created by QuarkXPress. A project can contain one or more layouts.

RENDERING
Rendering is the process of generating a file in a particular format (such as JPEG, EPS, or PDF) from a QuarkXPress layout.

RENDERING TYPE
The rendering type is the format in which QuarkXPress Server can render QuarkXPress layouts. Some rendering types, such as JPEG and PNG, can be displayed in a Web browser, while others must be saved to the hard drive.

SERVER XTENSIONS SOFTWARE (SXT)
Server XTensions software is XTensions software written specifically for QuarkXPress Server. For more information, see the QuarkXPress Server XTensions Developer’s Kit.

SUBRENDERER
A subrenderer is a process launched by QuarkXPress Server to help process rendering requests. Subrenderers reside on the same server as QuarkXPress Server and share the same memory and preferences. When subrenderers are launched, QuarkXPress Server becomes a load-balancing “master server,” passing incoming requests to subrenderers for faster response times.