

A Guide to QuarkXPress Server 2017

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Conventions

Formatting conventions highlight information to help you quickly find what you need.

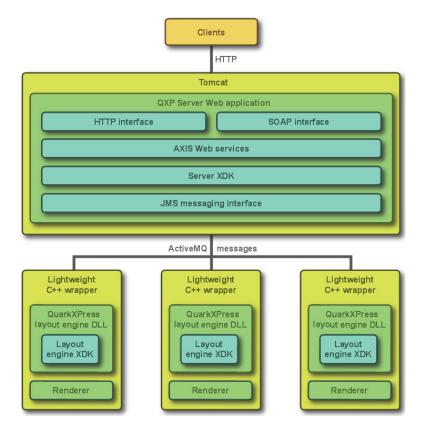
- Bold type style: The names of all dialog boxes, fields, and other controls are set in bold type. For example: "Click **OK**."
- References: In descriptions of features, parenthetical references guide you in accessing those features. For example: "The Find/Change dialog box (Edit menu) lets you find and replace text."
- Arrows: You will often see arrows (>), which map out the menu path to a feature.
 For example: "Choose Edit > Style Sheets to display the Style Sheets dialog box."
- Icons: Although many tools and buttons are referenced by name, which you can see by displaying ToolTips, in some cases icons are shown for easy identification. For example, "Click the button on the Measurements palette to center text."
- Cross-platform issues: This application is quite consistent across operating systems. However, some labels, buttons, key combinations, and other aspects of the application 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.

Getting started with QuarkXPress Server

QuarkXPress Server lets you render QuarkXPress projects in a variety of formats.

QuarkXPress Server architecture

The QuarkXPress Server architecture is shown in the following diagram.



QuarkXPress Server architecture diagram

Understanding QuarkXPress Server

QuarkXPress Server helps automate the generation of QuarkXPress layouts to a variety of output formats—including JPEG, Portable Document Format (PDF), and PostScript®—all from a centralized Web application. To send a request to QuarkXPress Server, all you need to do is enter a URL into your Web browser's

GETTING STARTED WITH QUARKXPRESS SERVER

address field. For example, the following URL instructs the QuarkXPress Server application named "QXPServer" to return the file "MyProject.qxp" as a PDF file:

http://QXPServer: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—the Web browser in this case.

- → The format of QuarkXPress Server URL requests is described in detail in "Creating URL requests" and in "Web integration."
- → 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 "Web integration."

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 and other types of requests.
- 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 language edition of QuarkXPress 7.0 or later. QuarkXPress Server can save and export projects in QuarkXPress 8.x, 9.x and 10.x format.

The document pool and the Streaming Document Provider

QuarkXPress Server has two main ways to find or receive content for rendering.

- The document pool
- The Streaming Document Provider

QuarkXPress Server can read 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.

- Use the **Add Files** command in the **Document Pool** screen of the QuarkXPress Server Web interface.
- 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 "Telegraph XTensions software.")

For more information about the document pool, see "The QuarkXPress Server User Interface."

The document pool directory cannot be an encrypted directory.

QuarkXPress Server can also receive templates, projects, and other files as part of a multipart HTTP request. For more information, see "Using the Streaming Document Provider."

In addition, QuarkXPress Server can 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.

Job Jackets and resources

In QuarkXPress, *resources* are things such as style sheets, colors, H&Js, output styles, and item styles. Resources are stored in a *Job Jackets structure*, which can be either embedded in a project or stored in a separate Job Jackets file.

QuarkXPress Server uses a default Job Jackets file to make a default set of resources available to all projects handled by QuarkXPress Server, regardless of whether they are included in the projects and articles you render. You can update this file in two ways:

- Using the QuarkXPress Server Web interface. For more information, see "Job Jackets dialog box."
- Using request handlers. For more information, see "jobjacket" and "updateprefsfromjj."

Once you've downloaded the default Job Jackets file, you can update its resources using QuarkXPress. For more information, see "Job Jackets" in *A Guide to QuarkXPress*.

The location of the default Job Jackets file is stored in the QuarkXPress Server preferences folder. For more information, see "QuarkXPress Server preferences."

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.

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 a "QuarkXPress Server.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/QuarkXPress Server Renderer/
- .
- •
- •
- Windows:

C:\Windows\System32|config\systemprofile\AppData\Roaming\Quark
\QuarkXPressServer Renderer [version]

For more information about preferences, see the "Administration menu."

Quark License Administrator

To prevent unauthorized use, launching QuarkXPress Server requires the presence of a Quark® License Administrator (QLA) server. 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-renderer 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 renderers (additional instances of QuarkXPress Server). The master QuarkXPress Server application launches the available number of renderers and then passes the requests in the connection queue to those renderers as they become available. The number of renderers available for launch is determined by the number of licenses available from the QLA server.

The master QuarkXPress Server process and all of the renderers it launches share the following elements:

- The same application preferences (each renderer has its own preferences files, but QuarkXPress Server keeps them synchronized)
- The same document cache in memory
- The same memory cache
- The same server XTensions modules (a separate instance of each XTensions module runs with each renderer)
- 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 renderer unexpectedly quits, the master QuarkXPress Server restarts the renderer without requiring any action from you.

Changing logging levels in "log4j2.xml"

You can change the logging levels for QuarkXPress Server. Options include ERROR, INFO, WARN, DEBUG, and TRACE.

- ERROR = includes messages that indicate disrupted and failed requests.
- INFO = includes messages that indicate the state of services.
- WARN = includes non-critical service error messages
- DEBUG = includes messages that indicate server resource usage.
- TRACE = includes messages according to activity related to requests.

Refer to Java documentation for more information about logging levels.

To change logging levels:

- 1. Open the "conf" folder in your QuarkXPress Server folder.
- **2.** Open "log4j2.xml" in a text-editing application.
- **3.** To define the logging level for QuarkXPerss Server errors, scroll to <logger name=com.guark.gxps. The structure is as follows:

```
<logger name="com.quark.qxps">
  <level value="ERROR" />
  </logger>
```

4. To define the logging level for QuarkXPress Server transactions, scroll to

```
<logger name=QXPSTransactionLogger. The structure is as follows:</pre>
```

5. To define the logging level for other activity, scroll to the <root>. The structure is as follows:

```
<root>
  <priority value="ERROR" />
   <appender-ref ref="QxpsServerAsyncAppender" />
</root>
```

6. Save and close "log4j2.xml."

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; Modifier XTensions software lets you retrieve, manipulate, and reconstruct XML representations of projects; and QuarkCopyDesk® Renderer XTensions software lets you create QuarkCopyDesk articles. Telegraph XTensions software works with QuarkXPress to allow designers to name boxes in template files so that those boxes can be addressed by URLs.

For more information about XTensions software included with QuarkXPress Server, see "XTensions software" and "Telegraph XTensions software."

The QuarkXPress Server XTensions 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).

→ As of version 8.0, the QuarkXPress Server XDK is Unicode-compliant.

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
- 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

Configuring QuarkXPress Server for launch

To configure QuarkXPress Server prior to launch, open the file [QuarkXPress Server application folder]/conf/ServerApp.properties folder) and modify it as follows:

- To make the server run without loading any network interface, use the nonetwork option with the <code>qxpservercore.serverRendererParameters</code>. In this mode, the only transactions a server can run are those passed to it by another process.
- To control whether renderers are monitored, set qxpservercore.monitorrenderers.value to true or false.
- To specify the query interval for monitoring renderers, set qxpservercore.monitorrenderers.queryinterval.value to a value in seconds.
- To specify the number of retries for monitoring renderers, set qxpservercore.monitorrenderers.noofretries.value to an integer. If a renderer process has been attempting to fulfill a request for the specified number of retries (with the specified query interval in seconds between retries), the renderer monitor recyles that process.
- To control how many renderers the master process launches, specify a number for <code>qxpserver.subrenders</code>. Note that the number of renderers you can launch depends on your license.
- To force the renderers to restart on a periodic basis, specify a value in hours for qxps.render.recycle.interval. The default value is 24, or 24 hours.
 Decimal values are permitted. Renderers restart serially, so one renderer doesn't restart until the other is finished restarting. If a renderer is busy, the master process waits for 15 minutes, and then if the renderer is still busy, postpones the restart until the next interval elapses. Set this value to zero to turn the automatic restart feature off.
- The request timeout at Renderer lets you specify the timeout value for rendering. It is set to 10 minutes by default.

```
qxpserver.renderer.request.timeout.name = requestTimeout
qxpserver.renderer.request.timeout.value = 10
```

- To control whether the server should collect performance metrics, set qxpserver.CollectPerformanceMetrics=true to collect and false to not collect metrics.
- To set the number to transactions after which performance metrics data will be flushed to file:

```
qxpserver.CollectPerformanceMetrics.flush.transactioncount =
100
```

- To send JMX notifications when performance metrics change set: qxpserver.CollectPerformanceMetrics.sendjmxnotifications = true
- Enable this flag to automatically refresh admin ui through JMX notifications qxpserver.CollectPerformanceMetrics.adminui.autorefresh = true

GETTING STARTED WITH QUARKXPRESS SERVER

- To reset metrics on every launch of qxps. If set to true, the QuarkXPress Server will clear old metrics and start capturing fresh metrics on every launch.

 qxpserver.CollectPerformanceMetrics.resetmetricsonserverlaunch
 = false
- To accelerate the time to troubleshoot a failed rendering request, QuarkXPress
 Server creates the rescue folder and collects the data for failed and timed out
 transactions by default into a folder name QXPSRescuedata
 relative to doc
 pool.

Setting this value to false means the rescue folder will not be created and no data will be collected.

```
qxpserver.rescuefolder.manage=true
```

• Specify the rescue folder path for failed transactions. If no value is given here, the document pool path would be considered by default:

```
qxpserver.rescuefolder.path = <Specify custom folder path>
```

Launching QuarkXPress Server

On Windows, you can install QuarkXPress Server as an application or as a service (Quark recommends that you always run it as a service). On Mac OS, QuarkXPress Server always runs as an application.

If you install QuarkXPress Server on Windows as an application, you can launch it using the **Start** menu or by double-clicking the "ServerStartup.bat" in the QuarkXPress Server application folder.

For information on launching QuarkXPress Server in a separate Tomcat installation, see "Deploying QuarkXPress Server externally" in the QuarkXPress Server *ReadMe*.

QuarkXPress Server offers a browser-based user interface instead of a conventional user interface.

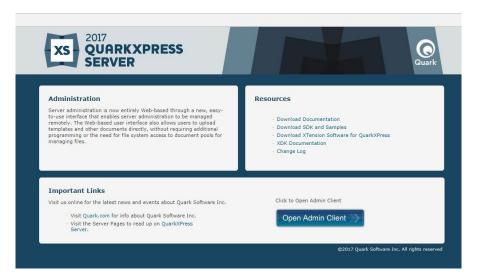
Quitting QuarkXPress Server

To quit QuarkXPress Server, press Control+C.

The QuarkXPress Server user interface

QuarkXPress Server offers a browser-based user interface. This chapter describes how you can use it to configure and customize your QuarkXPress Server application and manage your server XTensions modules.

To view the QuarkXPress Server welcome page, launch a Web browser and enter the URL http://[server]:[port] (where [server] is the IP address or domain name of the server and [port] is the TCP/IP port on which the server is running). The welcome screen displays.



The QuarkXPress Server welcome page

To display the administrative client, click **Open Admin Client**. If the server has realm verification enabled, you will be asked to enter your user name and password. The administrative client displays.

Navigation pane



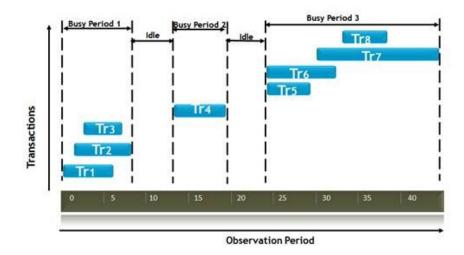
Status Monitor screen

The navigation pane on the left side has two areas shown in the lower left. The **Server Information** area lets you view server information and the transaction log, and the **Document Pool** area lets you view the contents of the document pool. You can collapse and expand this pane with the button at the right end of the **Navigation Pane** header.

If you click **Server Information**, the **Status Monitor** screen displays.

This screen shows the following usage reporting metrics:

- 1. Server Name: Name or IP of the machine running QuarkXPress Server.
- 2. **Server Startup time:** Shows the date and time at which the QuarkXPress Server Service was launched.
- 3. **Active Renderers:** Represents the number of renderers busy processing a rendering job. This updates dynamically.
- 4. **Idle Renderers**: Represents the number of renderers in an idle state. This updates dynamically.
- 5. **Observation Time:** The time period during which the server's activity is monitored to collect performance metrics.
- 6. **Busy Time:** Sum of all time periods when the server is busy processing at least one rendering transaction.
- For Example: Busy Time = Busy Period 1 + Busy Period 2 + Busy Period 3 + ... + Busy Period n, where Tr1, Tr2, ...Trn represent incoming rendering transactions.



Busy Time: Transactions Vs. Observation Period

7. **Server Utilization:** The percentage of server capacity used during the Observation Time.

Utilization (%) = (Busy Time / Observation Time) * 100.

- For Example: For an Observation Time of 50 minutes if the server is busy for 40 minutes, the Server Utilization(%) = (40 / 50) * 100 = 80%.
 - 8. Rendering Throughput: The average number of rendering transactions completed during Busy Time.

Rendering Throughput = total rendering transactions completed / Busy Time.

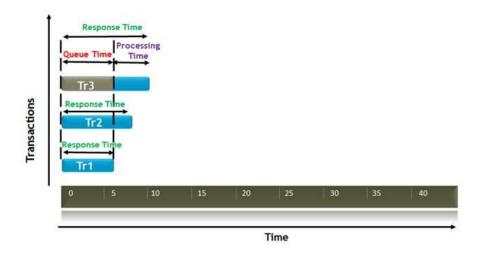
- For example, if 150 rendering transactions are completed in a busy time of 50 minutes, then the throughput would be 150/50 = 3 transactions / min.
 - 9. Arrival Rate: The number of arrivals per unit of time.

Arrival Rate = Total transactions arrived / Observation Time

- For example for a total of 1500 rendering requests arrived, during 50 minutes Observation Time, the Arrival Rate = 1500/50 = 30 transactions / minute.
 - 10. **Response Time for a rendering transaction:** It is the total time taken to complete a transaction from its submission to completion.

Response Time= Queue Time + Processing Time

For example if a server running with 2 the rendering transaction Tr1 goes to renderer1, Tr2 goes to renderer2, Tr3 waits in queue until one of the renderer becomes free. The response time for each rendering transaction is as shown below.



Response Time: Transactions Vs. Time

11. **Average Response Time:** Average amount of time taken to complete a transaction from its submission to completion.

For Example:

Time taken to complete transaction 1 = Tr1

Time taken to complete transaction 2 = Tr2

• • •

...

Time taken to complete transaction n = Trn

Average Response Time = (Tr1 + Tr2 + ... + Trn) / n

12. **Peak Response Time:** The highest response times recorded during a given observation time.

For example, if during a given **Observation Time**, if response times for various rendering transactions are as below,

Tr1 = 7 sec

Tr2 = 15 sec

Tr3 = 2 sec

Tr4 = 2 sec

Tr5 = 20 sec

...

• • •

Trn = 4 sec

Peak Response Time = MAX(7,15,2,2,20...4) = 20 sec.

- 13. **Average Queue Time:** The average time a rendering job stays in the queue before it gets processed. The average queue time = total queue time / total rendering transactions completed.
- For example, if the total queue time is 3 minutes (i.e. 180 seconds) and 150 transactions are completed, then the Average Queue Time = (3 * 60) / 150 = 1.2 seconds
 - 14. **Peak Queue Time:** The highest waiting time a rendering job stays in the queue.

For example, if during a given Observation Time, the waiting times iare:

```
Tr1 = 0 sec

Tr2 = 5 sec

Tr3 = 2 sec
...
...
Trn = 4 sec
```

- Peak Queue Time = MAX(0,5,2, ...4) = 5 sec.
- 15. **Current Queue Length:** The number of rendering jobs waiting in the queue to be processed.
- 16. **Peak Queue Length:** The highest queue lengths recorded during a given observation time.
- 17. **Rendering Requests:** The total number of transactions delegated to renderers during a given observation time (e.g. PDF, JPG, /getprojinfo, /jobjacket, /getrendererprefs, /setrendererprefs, etc).
- 18. **Pages Rendered:** Sum total of all pages rendered for each rendering transaction during a busy time.
- 19. **Images Processed:** Sum total of all image files either imported or rendered as a part of the rendering transaction during the observation time.
- 20. **Average Rendering Time Per Page:** The average time taken to render a page. Average rendering time per page = busy time / total pages rendered.
- For example, if a total of 15000 pages are rendered when the server was busy for 50 minutes (i.e. 3000 sec), the Average Rendering Time Per Page = (50*60)/15000 = 0.2 seconds
 - 21. **Total Renditions:** The number of renditions of various formats rendered by the server during the observation time. By default, this includes PDF, JPEG, HTML5, EPUB, KINDLE, APPSTUDIO, EPS, XML, PNG, CopyDesk Articles, QuarkXPress Projects.
 - 22. Failed Transactions Count: The number of failed transactions.
 - 23. Error Rate: The percentage of failed transactions during the Observation Time.
- For example if out of 500 rendering transactions, if 10 transactions failed, then the Error Rate (%) = (10 / 500) * 100 = 2%.

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- 24. **RESET button:** Clicking on the reset button results in the following sequence of actions:
- The server usage information recorded during the Observation Time is backed up to a backup file (Telemetry.json) within the QuarkXPress Server logs folder.
- Clears all the server usage information displayed in the Status Monitor page of Admin UI by resetting the values to zero.
- Starts a fresh Observation Time under which all the usage information will be freshly recorded again.

The icons in the area below represent the renderers that are currently running and show which requests are being processed by each renderer in real time. This screen also shows the number of active and idle renderers.

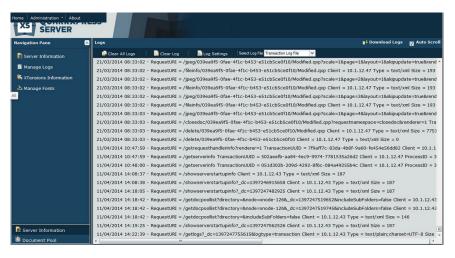
The information for the Observation Time can be downloaded as a backup (step-5). A file named "Telemetry.json" is downloaded in association with the .zip archive downloaded using the **Download Logs** button under **Manage Logs**.

REST interface for usage data:

http://<servernameorip>:8080/telemetry

http://<servernameorip>:8080/cleartelemetry

If you click Manage Logs, the Logs screen displays the current transaction log.



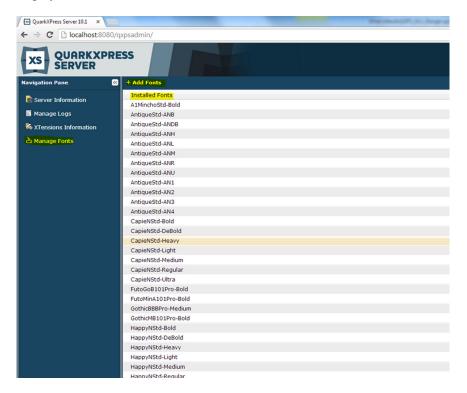
Logs screen

- To download the active log including recent crash reports, click Download Logs at the top of the Logs header.
- To make the log scroll automatically as events occur, check Auto Scroll.
- To clear all logs, click Clear All Logs.
- To clear the current log, click **Clear Log**.

- To display the Log Settings dialog box, click Log Settings. In this dialog box, you can change the maximum log file size, the maximum rolling count, and the logging level for the general QuarkXPress Server log, the QuarkXPress Server transaction log, and the QuarkXPress Server fatal log.
- Each transaction entry in the QuarkXPress Server transaction log has some useful information related to request URI, time taken for rendering, rendered output size, pages generated, images processed, average time per page, time/duration a transaction has waited in the queue before it got processed(queue time), queue length, and the number of other transactions still waiting in the queue at the time it was processed.
- To view a particular log file, choose an option from the Select Log File dropdown menu.

If you click **Show XTensions Information**, the **XTensions Information** screen displays, allowing you to view the status of all installed XTensions modules.

If you click Manage Fonts, a list of fonts installed on the Server machine is displayed.



Fonts screen

To search fonts, use the list search box in the top right corner.

To add fonts to the Server machine, click the Add Fonts button. This will copy the fonts to the "privatefonts" folder in the QuarkXPress Renderer folder.

Administration menu

The administration menu lets you manage QuarkXPress Server.

You do not have to restart the server in GUI mode to set preferences.

General Preferences dialog box

The General Preferences dialog box (Administration > Preferences > General) lets you set preferences that are not related to rendering. It includes the tabs described in the following topics.

You can also set general preferences using the setprefs request handler. For more information, see "setprefs."

General Preferences — Server

The Server tab (Administration > Preferences > General > Server) includes the following controls.

Use the **Document Root Folder** field to specify the location of the document pool.

Putting the document pool on a network connected drive is not recommended, because this negatively impacts the performance of QuarkXPress Server.

Use the Allow Memory Caching check box to control whether memory is cached.

Use the Max Memory Cache Size field to specify the maximum memory size allocated to the cache memory. Valid values are from 10MB to 1024MB.

Use the Force Served Documents Closed check box to control whether QuarkXPress Server closes projects from the document pool after it renders them, regardless of the Telegraph XTensions software setting. Uncheck this box to keep such projects open on the server.

Use the **Default Renderer Type** drop-down menu to specify the default rendering format for the server.

- Appstudio: Returns a .zip file containing an HTML5 App Studio article.
- Appstudio Upload: Exports an HTML5 App Studio article and uploads it to the App Studio Publishing Portal.
- **ePUB**: Returns an ePUB file.
- 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.
- QCDDOC: Returns a QuarkCopyDesk article.
- 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.

Use the Scale field to specify the default scale percentage at which QuarkXPress Server should render projects.

Use the Disable QXD Return check box to specify whether QuarkXPress Server can return QuarkXPress projects to clients.

General Preferences — Log

The Log tab (Administration > Preferences > General > Log) includes the following controls.

Use the Log Document Problems check box to specify whether to include problem descriptions in transaction log files. The "Log" folder inside the QuarkXPress Server application folder contains three log files:

- QuarkXPress Server Fatal Log.log: This log lists all fatal errors.
- QuarkXPress Server Log.log: The log for the Java process. This log contains source code-level logging information that can be useful in troubleshooting.
- QuarkXPress Server Transaction Log.log: This log lists all transactions and all errors.
- → Detailed application logging is enabled for these log files only if it is enabled in the "log4j.xml" file.

To log detailed transaction timing data, check Log Timing Data.

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 uses the fonts specified in the Fonts tab of the Preferences dialog box (Administration > Preferences > General). If these fonts are also unavailable, QuarkXPress Server substitutes Helvetica (Mac OS) or Arial (Windows). This behavior is the same as it is in QuarkXPress.
- Missing Pictures
- 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.
- → Information about missing fonts and missing pictures is also recorded in the "QuarkXPressServerRenderer.log" file. This file also contains detailed timing information, including the transaction UID for each transaction. This log file can be found here:
 - Mac OS: [drive]/Users/[user name]/Library/Logs/Quark

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- Windows: [drive]:\Program Files\QuarkXPress Server
- To download all logs to a non-server computer, click **Show Transaction Log** in the QuarkXPress Server Web interface, then click **Download Logs** on the home page.

General Preferences — Email

QuarkXPress Server can automatically notify someone by e-mail when the checkedout QLA license is about to expire. The Email tab (Administration > Preferences > General > Email) lets you specify where such e-mail messages should be sent.

Use the Server field to specify the domain name or IP address of the e-mail server that QuarkXPress Server should use to send messages (for example, mail.quark.com).

Use the **Port** field to specify the port number of the e-mail server that QuarkXPress Server should use to send messages. Valid values are from 0 to 255.

Use the From to specify the source e-mail address the QuarkXPress Server application should use to send messages (for example, QXPSserver1@quark.com).

Use the To to specify the e-mail address to which the QuarkXPress Server application should send messages (for example, QXPServerAdmin@quark.com).

General Preferences — Authentication

The Authentication tab (Administration > Preferences > General > **Authentication**) includes the following controls.

Check Authenticate For Admin Requests to enable the Username and Password fields. These fields let you control access to administrative parameters and features. You can enter up to 32 characters.

Renderer Preferences dialog box

Use the renderer Preferences dialog box (Administration > Preferences > Renderer) to set up default preferences for use when projects are created in QuarkXPress Server. It includes the tabs described in the following topics.

- Many of these preferences come into play only when you create a project in QuarkXPress Server, either using a construct request or through a request handled by a custom QuarkXPress Server XTensions module.
- → You can also set renderer preferences using the setrendererprefs request handler. For more information, see" setrenderer prefs."

Preferences — Display

The Display pane (Administration > Preferences > Renderer > Display) includes the following controls.

Use the Color TIFFs drop-down list to specify the color depth of screen previews created for color TIFFs when they are imported.

Use the **Gray TIFFs** drop-down list to specify the resolution of screen previews created for grayscale TIFFs when they are imported.

Choose a profile that corresponds to your monitor from the **Monitor Profile** drop-down menu, or choose **Automatic**. Profiles can be placed in the "Profiles" folder in the QuarkXPress Server application folder.

Preferences — Input Settings

The Input Settings tab (Administration > Preferences > Renderer > Input Settings) includes the following controls.

Check **Smart Quotes** to force QuarkXPress to replace feet (')and inches (") marks automatically with the specified quotation marks.

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).

To change the separators used for indicating sequential ranges for output, enter a value in the **Sequential Page Range Separator**. This value override the preferences set for a project.

To change the separators used for indicating nonsequential ranges for output, enter a value in the **Non Sequential Page Range Separator**. This value override the preferences set for a project.

Preferences — Font Fallback

The Font Fallback pane (Administration > Preferences > Renderer > Font Fallback) includes the following controls.

Check **Font Fallback** to activate the Font Fallback feature. When this feature is active, if the application encounters a character it cannot display in the current font, it attempts to find a font that can display the character.

If the application encounters a missing font when opening a project, it uses the preferences in this pane to determine which substitute fonts to use.

→ If you add characters to an exising project and the font cannot support those characters, the application will search the system for a font that can display the characters.

Check **Search** to have the application search for a suitable font that is used in the active project. To restrict the search to a particular range, choose an option from the **Search Type** drop-down menu. To search the entire story where a missing font occurs, choose **Active Story**. To search a particular number of paragraphs in both directions, choose **Paragraph** and enter a number in the **Search Limit** field.

To indicate which fallback fonts should be used when no other font can be found (taking the **Search** settings into account), choose options from each of the dropdown menus in the **Font List** area.

To indicate which font should be used for the slug line when a layout is printed with registration marks turned on, choose an option from the **Slug Line Font** dropdown menu.

Preferences — Open and Save

The Open and Save pane (Administration > Preferences > Renderer > Open and Save) includes the following controls.

Choose an option from the **Encoding** drop-down menu to indicate how the applications should display characters in non-Unicode text.

Preferences — Fonts

The Fonts pane (Administration > Preferences > Renderer > Fonts) includes the following controls.

To specify default replacement fonts, check **Specify Default Replacement Font** and choose options from the **Roman** and **East Asian** drop-down menu.

To highlight characters that are in a Traditional Chinese encoding's UDA/VDA (User Defined Area/Vendor Defined Area) range so that these characters can be visually verified, check **Highlight character ranges defined by Traditional Chinese font vendors**.

Preferences — **EPS**

The EPS pane (Administration > Preferences > Renderer > EPS) includes the following controls.

To control whether the application should generate a preview of an EPS file or use the preview (if any) embedded in the file, choose an option from the **Preview** dropdown list. The option specified in this pane is used only when the EPS preview is being created. If you change the preference, you need to reimport the EPS file.

Preferences — PDF

Use the PDF pane of the Preferences dialog box (Administration > Preferences > Renderer > PDF) 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."

Use this pane to specify a PDF workflow:

- Click **DirectPDF** to generate PDF output in the browser. This is the default option.
- Click PDFtoFolder to generate and save PDF files to a folder. Click
 Select/Browse to specify a location for the folder in the Watched Folder field.
- Click **PS4D** (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.

Use this pane to set the desired PDF output style. Choose from the following output styles:

- Default PDF Output Style
- Print Medium Quality/Medium Resolution
- PDF/X-1a:2001

- PDF/X-3:2002
- Press High Quality/High Resolution
- Print Medium Quality/Medium Resolution
- Screen Low Quality/Low Resolution
- Screen Medium Quality/Low Resolution

Use this pane to specify the folder path for the distiller error log file. The path is used by the PDFFilter XTension software to create the log file to log the errors that occur during the distillation process.

The default path to the log file is <users>/Documents. If you choose to change the default, the log folder specified must be a pre-existing folder on the system.

Preferences — Project General Settings

The Project General Settings pane (Administration > Preferences > Renderer > Project General Settings) includes the following controls.

Check **Use OpenType Kerning** to activate the default kerning values for OpenType fonts. When OpenType kerning is active, it overrides any kerning specified through **Kerning Table Edit (Utilities** menu) for OpenType fonts.

To disable OpenType kerning for full-width characters, check **Do Not Kern Full Width Characters**.

Preferences — Print Layout Settings

The Print Layout Settings pane (Administration > Preferences > Renderer > Print Layout Settings) includes the following controls.

Use the **Master Page Items** drop-down menu to control what happens to master items when master pages are applied.

- Click **Keep Changes** if you intend modified master items on your layout pages to remain when a new master page is applied. The items that are kept are no longer master items.
- Click **Delete Changes** if you want modified master items on your layout pages to be deleted when a new master page is applied.

Use the **Framing** drop-down menu to specify whether frames are placed inside or outside text and picture boxes.

- When you click Inside, the distance between the text and the frame is
 determined by the box's Text Inset values (Item > Modify). When you place a
 frame inside a picture box, the frame overlaps the picture.
- When you click **Outside**, the frame is placed outside the box, increasing the box's width and height. The frame cannot extend beyond a constraining box or the pasteboard.

Use the **Auto Page Insertion** drop-down menu (Print layouts only) to 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). The drop-down menu also enables you to determine where any pages will be inserted.

Preferences — Print Layout Measurements

The Print Layout Measurements pane (Administration > Preferences > Renderer > Default Print Layout Measurements) includes the following controls.

Use the **Horizontal** and **Vertical** drop-down menus to specify the measurement system for the rulers displayed along the top and left of the layout window. **Horizontal** corresponds to the top ruler; **Vertical** corresponds to the left ruler.

Use the **Points/Inch** field to override the default value of 72 points per inch. The application uses the value here as the basis for all point and pica measurements, as well as for all point- and pica-to-inch conversions. The desktop publishing standard for points per inch is 72. However, the traditional typographic standard used on most metal typographic rulers is usually approximately 72.27 or 72.307 points per inch (range = 60 to 80 pt, measurement system = points, smallest increment = .001).

Use the Ciceros/cm field to specify a ciceros-to-centimeter conversion value different from the standard 2.1967 (range = 2 to 3 c, measurement system = ciceros, smallest increment = .001).

Preferences — Paragraph

The Paragraph pane (Administration > Preferences > Renderer > Paragraph) includes the following controls.

Use the **Auto Leading** feature to automatically set line spacing. Unlike paragraphs with absolute leading (identical line spacing above every line), paragraphs with auto leading may include lines with different leading when fonts and font sizes are mixed in the same paragraph.

Auto leading starts with a base amount of leading, which the application calculates by examining the ascent and descent values built into the fonts used in an auto-leaded line and the line above it; however, the user-specified text size plays the largest part in determining this base amount. Finally, a value specified by the user in the **Auto Leading** field is added to the base amount to arrive at the total amount of leading.

To specify percentage-based auto leading, enter a value from 0% to 100% in 1% increments. This value determines the amount of leading between two lines of text as follows: The largest font size in the line above is multiplied by the percentage value. This outcome is added to the base amount of auto leading between the two lines. Although the design of certain fonts complicates the process, here is a simplified example: 10-point text styled consistently in a "standard" font with **Auto Leading** set to 20% has 12 points of leading (10 pts + [20% of 10] = 12 pts).

Use the Maintain Leading check box to control the placement of a line of text that falls immediately below an obstruction in a column or box. If Maintain Leading is checked, the line's baseline is placed according to its applied leading value. If Maintain Leading is unchecked, the ascent of the line will abut the bottom of the obstruction or any applied runaround value.

In the Lock to Grid Based On area:

- Click **Ascent and Descent** to lock text to grid based on the ascenders and descenders of characters.
- Click Font Size (Em Box) to lock text to grid based on the size of the em boxes
 of the characters.

Preferences — Character

The Character pane (Administration > Preferences > Renderer > Character) includes the following controls.

Use the **Superscript** fields to control the placement and scale (size) of superscript characters. The **Superscript Offset** value determines how far below the baseline the application places a superscript character. The **Superscript Offset** value is measured as a percentage of font size. The default value is 33%. The **Superscript VScale** value determines the vertical size of the character and is a percentage of font size. The **Superscript HScale** value determines width and is a percentage of the normal character width (as specified by the font designer). The default value for both scales is 60% (range = 0 to 100%, measurement system = percentage, smallest increment = .1).

Use the **Subscript** fields to control the placement and scale (size) of subscript characters. The **Subscript Offset** value determines how far above the baseline the application places a subscript character. The **Subscript Offset** value is measured as a percentage of font size. The default value is 33%. The **Subscript VScale** value determines the vertical size of the character and is a percentage of font size. The **Subscript HScale** value determines width and is a percentage of the normal character width (as specified by the font designer). The default value for both scales is 100% (range = 0 to 100%, measurement system = percentage, smallest increment = .1).

Use the **Small Caps** fields to control the scale of characters with the **Small Caps** type style applied to them. The **Small Caps VScale** value determines the vertical size of the character and is measured as a percentage of font size. The **Small Caps HScale** value determines width and is measured as a percentage of the normal character width (as specified by the font designer). The default value for both scales is 75% (range = 0 to 100%, measurement system = percentage, smallest increment = .1).

Use the **Superior** fields to control the scale of superior characters. The **Superior VScale** value determines the vertical size of the character and is measured as a percentage of font size. The **Superior HScale** value determines width and is measured as a percentage of the normal character width (as specified by the font designer). The default value for both scales is 60% (range = 0 to 100%, measurement system = percentage, smallest increment = .1).

Use the **Ligatures Break Above** field to use ligatures built into a font. A ligature is a typographic convention in which certain characters are combined into a single glyph. Most fonts contain ligatures for the characters "f" followed by "i" and "f" followed by "l". The **Ligatures Break Above** field enables you to specify the kerning or tracking value (measured in 1/200 em space increments) above which characters will not be combined into ligatures. For example, a headline with a large tracking value would probably not contain ligatures. The default value is 1 (range = 0 to 10, measurement system = .005 [1/200] em space, smallest increment = .001). To

THE QUARKXPRESS SERVER USER INTERFACE

prevent the second two letters in "ffi" and "ffl" (as in office and waffle) from being combined into ligatures, check Not "ffi" or "ffl". Three-character ligatures for these combinations, common in traditional typesetting systems, are not standardized in fonts designed for Mac OS, so some typographers prefer to keep all three letters separate rather than combine only two of them. Note that many PostScript fonts do not have "ffi" and "ffl" ligatures, but most OpenType fonts do. This option is unchecked by default.

Check **Auto Kern** to specify that the application should use kerning tables, which are built into most fonts, to control intercharacter spacing. The **Auto Kern Above** field enables you to specify the point size above which automatic kerning must be used. The **Auto Kern Above** feature also implements custom tracking information specified in the **Tracking Values** dialog box for a selected font (**Utilities** > **Edit Tracking**) in QuarkXPress. This option is checked by default, with a 4-point threshold (range = 0 to 72 pt, measurement system = various [", pt, cm, etc.], smallest increment = .001).

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). If **Standard Em Space** is unchecked, the application uses the width of the two zeros in the current font as the em-space width. This option is checked by default. You can insert an em space in text by pressing Option+space/Ctrl+Shift+6.

Use the **Flex Space Width** field to change the 50% default width of a flexible space. To create a breaking flexible space, press Option+Shift+space/Ctrl+Shift+5; to create a nonbreaking flexible space, press

Command+Option+Shift+space/Ctrl+Alt+Shift+5. The Flex Space Width value is expressed as a percentage of the normal en space for a given font and font size (range = 0 to 400%, measurement system = percentage, smallest increment = .1).

Use the Accents for All Caps check box to specify whether to include accent marks on accented characters with the All Caps type style applied. This option is checked by default.

Use the **Space between CJK & R** field to indicate how much space should be included by default between a Chinese, Japanese, or Korean character and an adjacent Roman character.

Preferences — Trapping

The **Trapping** pane (**Administration** > **Preferences** > **Renderer** > **Trapping**) includes the following controls.

Select a Trapping Method:

- Click 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 darker, the object is choked by the background using the Auto Amount value.
 If the object color is lighter, the object is spread into the background using the
 Auto Amount value.
- Click **Proportional** to trap using the value in the **Auto Amount** field multiplied by the difference between the luminance (lightness or brightness) of the object color and the background color.

• Click **Knockout All** to turn off trapping and print objects with a zero trap amount.

Check **Process Trapping** to trap each process separation plate individually when a page contains overlapping process colors.

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.

Enter a trapping value in the **Auto Amount** field or choose **Overprint**:

- Enter a value in the Auto Amount field to control the amount of trapping that
 QuarkXPress applies to object and background colors that have an Auto
 Amount specified in the Trap Specifications dialog box (Edit > Colors > Edit
 Trap), and to control the amount of trapping applied to items with an Auto
 Amount (+) Trap Information or (-) specified in the Trap Information palette
 (Window > Trap Information).
- Choose Overprint to cause overprinting for object and background colors with an Auto Amount specified in the Trap Specifications dialog box (Edit > Colors > Edit Trap), as well as for items with an Auto Amount (+) or (-) specified in the Trap Information palette (Window > Trap Information).

Enter a trapping value in the **Indeterminate** field or choose **Overprint**:

- Enter a value in the **Indeterminate** field to control the amount of trapping that QuarkXPress applies to object colors that are in front of indeterminate backgrounds (multiple colors with conflicting trapping relationships).
- Choose **Overprint** to cause an object color to overprint an indeterminate background.

Enter a **Knockout Limit** value. The knockout limit is the value (expressed as a percentage of darkness of the object color) that enables you to control the point at which an object color knocks out a background color.

Enter an **Overprint Limit** value. Overprint limit is a trapping setting that allows an object set to overprint to trap according to the **Auto Amount** value if the object's shade is less than a particular percentage.

Preferences — Color Manager

The Color Manager pane (Administration > Preferences > Renderer > Color Manager) includes the following controls.

To specify an engine for color transformation, choose an option from the Color Engine drop-down menu.

To achieve the darkest possible blacks in all output methods, check **Black Point** Compensation.

Use the **Source Setup** drop-down menu to specify the source color space of pictures and colors used in the application.

To enable the **Profile Information** command in the **Window** menu and the **Color Management** tab in the **Import Picture** dialog box, check **Enable Access to Picture Profiles**. This option allows you to view information about profiles.

To specify a default proof output setup, choose an option from the **Proof Output** drop-down menu.

To specify a rendering intent for soft proofing, choose an option from the Rendering Intent drop-down list. Perceptual scales all the colors in the source gamut so that they all fit within the destination gamut. Relative Colorimetric retains colors that are in both the source gamut and the destination gamut. The only source colors that are changed are those that are not within the destination gamut. Saturation considers the saturation of source colors and changes them to colors with the same relative saturation in the destination gamut. Absolute Colorimetric retains colors that are in both the source gamut and the destination gamut. Colors that are outside the destination gamut are adjusted in relation to how they would look when printed on white paper. Defined by Sources uses the rendering intents defined in source setup for all colors and images.

To color manage vector content in imported EPS and PDF files, check Color Manage Vector EPS/PDF. Note that this preference applies only to EPS and PDF files imported after this box is checked.

To color manage vector content in EPS and PDF files that have already been imported in the active project, check Include Existing Vector EPS/PDF in Layout.

Preferences — Layers

The Layers pane (Administration > Preferences > Renderer > Layers) has the following controls.

To make new layers visible by default, check Visible.

To suppress the printout of new layers by default, check **Suppress Output**.

To make new layers locked by default, check Locked.

To maintain runaround on new layers so that text on visible layers flows around items on hidden layers, click Keep Runaround.

Preferences — Kindle

Use the Kindle pane (Administration > Preferences > Renderer > Kindle) to specify the location of the KindleGen tool, which is required for Kindle output.

To get a free copy of KindleGen, visit https://kdp.amazon.com/selfpublishing/help?topicId=A3IWA2TQYMZ5J6.

Preferences — Modifier

Use the Modifier pane (Administration > Preferences > Renderer > Modifier) to control whether and where errors are displayed in rendered layouts.

To include descriptions of rendering errors in the layout itselt, check Annotate errors in the Output Document. (For more information, see "annotateerrors.") In rendered QuarkXPress files, errors are displayed as notes. In rendered PDFs, errors are displayed as comments. In XML output, errors are displayed as notes XML markup.

To append descriptions of rendering errors after the last page, check **Append errors** into the Output Document. (For more information, see "appenderrors.")

Descriptions of rendering errors are formatted in 10-point magenta Arial.

Job Jackets dialog box

The **Job Jackets** dialog box lets you edit the Job Jackets file used by QuarkXPress Server. To edit the QuarkXPress Server Job Jackets file:

- 1. In the QuarkXPress Server Web interface, choose **Administration > Job Jackets**. The **Manage Job Jacket** dialog box displays.
- **2.** Click the **Get Job Jacket for editing** button and save the Job Jackets file to the desktop.
- **3.** Open the downloaded Job Jackets file in QuarkXPress and make any necessary changes to the **QXPSJobTicket** Job Ticket.
- **4.** In the **Job Jacket** dialog box, click **Choose File** and select the modified Job Jackets file.
- **5.** Click **Submit**. The QuarkXPress Server Job Jackets file is replaced with the modified version.

App Studio preferences

The **AppStudio** dialog box lets you specify credentials and proxy settings so that QuarkXPress Server can upload HTML5 App Studio articles to the App Studio Publishing Portal. Enter your App Studio Publishing Portal user name and password, then enter the proxy settings for your proxy server (if any).

Check Out License dialog box

To check the QuarkXPress Server license out of Quark License Administrator, choose Administration > Check Out License. To specify the number of days for checkout, enter a value in days in the Check out for field. To be warned in advance of license expiration, check Warn me and use the corresponding fields.

Using QuarkXPress Server

The xml namespace deconstructs a project according to the Modifier DTD. The construct namespace lets the server turn an XML representation of a QuarkXPress project back into an actual project. With these namespaces, you can deconstruct a project into an XML representation, change the XML in accordance with the Modifier DTD, and then have the server generate an updated version of the QuarkXPress project. You can even create new QuarkXPress projects from scratch using XML.

In addition, you can use the construct namespace to:

- Create a page based on master page
- Create a project from XML, using a Job Jackets™ file as the basis for the project
- Modify text font and style, including OpenType® styles
- Apply style sheets and local formatting to text
- Create and populate tables
- Import pictures into picture boxes and specify picture attributes

The DTD used for XML construction and deconstruction is completely Unicode®-compliant, making it ideal for use in international publishing. Furthermore, the use of this DTD ensures that the schema of XML output created by Constructor does not change when server preferences change. This DTD is provided in the QuarkXPress Server application folder and fully documented in "Modifier DTD (annotated)."

→ Deconstructor XTensions software and the deconstruct namespace are no longer supported.

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. The topics below provide 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 "Web integration."

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 "Understanding QuarkXPress Server namespaces."
- path: Indicates the path to the directory where the target project file is stored. The project to be rendered can either be located in the document pool (in which case paths are evaluated relative to the document pool directory), or can be streamed as part of a multipart HTTP Post request. When the project is streamed as part of the request, the project name will correspond to the name given to the HTTP request part which contains the project data.
- 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 example, the following URL asks the QuarkXPress Server application named "QXPServer" to return the file "MyProject.qxp" as a PDF file with hyperlinks and all fonts embedded:

```
http://QXPServer:8080/pdf/MyProject.qxp?includehyperlinks=1&embed
allfonts=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 "Web integration."

Understanding QuarkXPress Server namespaces

QuarkXPress Server namespaces differentiate among types of requests that are otherwise identical. For example, consider the following three URLs:

```
http://QXPServer:8080/project1.qxp
http://QXPServer:8080/pdf/project1.qxp
http://QXPServer:8080/postscript/project1.qxp
```

These requests are identical, except each uses a different namespace (in italic). (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 Modifier XTensions software's xml namespace, Modifier XTensions software can return an XML representation of the project.

Looking up a namespace

This 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. In this Guide, go to the page that documents the render type you want to use. (For more information, see "Understanding render types.")
- 2. Locate the Namespace row. If the render type or function has an associated namespace, that namespace is listed here.
- Third-party XTensions can add their own namespaces. For information about a third-party namespace, see the documentation for the XTensions module that adds that namespace.

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://QXPServer: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://QXPServer:8080/jpeg/project1.gxp?page=3&scale=.5
```

Looking up a parameter

This Guide lists the parameters that are available for every QuarkXPress Server function. To determine which parameters you can use with a request:

- 1. In this Guide, go to the page that documents the the render type you want or the function you want to use. (For more information, see "Understanding render types" and "Understanding render modifiers.")
- 2. Locate the Parameters row. This row lists all available parameters, and includes a description and a list of valid values for each parameter.

Supported interfaces

The following interfaces are available in QuarkXPress Server:

- HTTP: Lets you interact with the server using URLs that contain calls or point to XML files that contain calls. You can write client applications in any language that supports HTTP requests. For more information, see "Getting started: HTTP".
- HTTPS: Provides secure HTTP access.
- Web services: Lets you interact with the server via Web services using the QuarkXPress Server Manager object model. You can write client applications in

Java, .NET, or any other programming language that can consume SOAP-based Web services. For more information, see "Getting started: Web services".

To develop a custom load balancer or a custom application in Java, you must have version 1.5 or 1.6 of the JDK.

The Dynamic Publishing Process (DPP)

The Dynamic Publishing Process (DPP) has several stages. You may not need to use all of these stages every time, but this the order in which they occur:

- Pre-Processing Stage: During this stage, QuarkXPress Server performs any necessary initial steps, such as creating style sheets, colors, and H&J rules for a new QuarkXPress project.
- Content Loading Stage: During this stage, QuarkXPress Server loads dynamic content into boxes in the project.
- Layout Modification Stage: During this stage, QuarkXPress Server modifies the layout of the project.
- Post-Processing Stage: During this stage, QuarkXPress Server examines the project and performs maintenance tasks.

Getting started

The topics below describe how to create requests for the QuarkXPress Server Web interface.

For information about the options available in such requests, see "Using the Web interface."

Getting started: HTTP and HTTPS

You can submit HTTP and HTTPS requests to QuarkXPress Server as URLs, either manually from a browser or automatically from an HTTP client application. QuarkXPress Server processes such requests and returns rendered content in the HTTP or HTTP responses. Depending on the type of request, the QuarkXPress Server preferences, and the type of content returned, the rendered content may be downloaded by the end user, displayed in the end-user's browser, or saved to a file system location accessible to QuarkXPress Server.

You can write a QuarkXPress Server client application in almost any language that can generate HTTP GET/POST requests. A QuarkXPress Server HTTP-based solution typically consists of QuarkXPress Server (running on a server computer connected to a network) plus a front-end application (usually Web-based) that provides a graphical user interface (GUI) for end users. The front-end application translates end users' input into HTTP or HTTPS requests and sends the requests to QuarkXPress Server or QuarkXPress Server Manager, which processes the requests and returns rendered content.

Dissecting a QXP Server URL

To interact with QuarkXPress Server from a Web browser, use a URL like the following:

http://[server]:[port]/[namespace]/[directory]/[DocumentName]?[pa rameter]=Value

- [server]: The name or IP address of the computer for QuarkXPress Server or QuarkXPress Server Manager.
- [port]: The port number on which to contact QuarkXPress Server or QuarkXPress Server Manager. The default port is 8080 for QuarkXPress Server and 8090 for QuarkXPress Server Manager.
- [namespace]: Defines what the URL action will be and any parameters and conditions available to that namespace.
- [directory]: The path in the document pool where the project is stored, relative to the QuarkXPress Server document pool. To access the root level, no directory path is necessary. (Note that you can also supply assets as part of a multipart HTTP request. For more information, see "Using HTTP POST with QXP Server.")
- [DocumentName]: The name of the QuarkXPress project to be processed.
- [parameter]: Further defines the URL action with attributes and values allowed for the namespace or general call. Pass parameters in the form attribute=value, with parameters separated by the "&" character.

For QuarkXPress Server Manager, use a URL like the following:

http://[server]:[port]/qxpsm/request/[namespace]/[directory]/ [DocumentName]?[parameter]=Value

- Prior to QuarkXPress Server 9.0, you had to use different URL constructions when sending requests to an instance of QuarkXPress Server Manager in a QPS installation than you did when sending requests to a free-standing instance of QuarkXPress Server Manager. In versions 9.0 and later, both can use /qxpsm/request/ after [port]/.
- You can now use both absolute and relative paths when you modify a project with SDK objects or classes. Relative paths are almost always relative to the document pool. If you use multiple QuarkXPress Server instances, you should use a common document pool.

Interpreting the QXP Server Manager response

When QuarkXPress Server Manager successfully processes a request through the HTTP interface, the response is the same as QuarkXPress Server's response unless the user has supplied additional parameters to QuarkXPress Manager. For more information, see "Working with QuarkXPress Server Manager" in A Guide to OuarkXPress Server.

If an error occurs, QuarkXPress Server Manager retries the request, either on the same QuarkXPress server instance or a different one (depending on the error and global settings established in the QuarkXPress Server Manager client). If QuarkXPress Server Manager cannot process the request, it returns an XML response describing the error, plus any header error codes returned by QuarkXPress Server. For example:

```
<?xml version="1.0" encoding="UTF-8" ?>
<error>
 <a href="httpresponsecode">httpresponsecode">httpresponsecode</a>
 <xpressservererrorcode>-43</xpressservererrorcode>
 <xpressservererrormessage>File not
found.</xpressservererrormessage>
  <xpressserverextendedmessage> <![CDATA[ Error #-43 - File not</pre>
found. 11>
    </xpressserverextendedmessage>
<xpressservermanagererrorcode>M8000001</pressservermanagererrorc</pre>
  <xpressservermanagererrormessage>The server could not locate
the specified file.
   </xpressservermanagererrormessage>
</error>
```

HTTP GET and POST Requests

The topics below describe how you can use HTML to interact with QuarkXPress Server.

→ QuarkXPress Server supports both the GET and POST HTML methods. When you use the GET method, the browser encodes form data into a URL. When you use the POST method, form data is passed within the message body. Use the GET method only when the form processing is idempotent. In short: GET is for retrieving data, whereas POST can involve storing or updating data, ordering a product, or sending an e-mail.

Using HTTP GET with QXP Server

Use HTML like the following to specify a server and port where you want to send a request. You can specify the name of the target project, the output type, and a scaling value. You can specify the name of a box and the path of a text or picture files to import into that box, as long as the file's path is on the server's file system. You can also use HTML like the following to specify the page number and layout number of the project.

The form section of the HTML should begin with the following line of code:

```
<form id = form1 method="GET" enctype="application/x-www-form-</pre>
urlencoded">
```

For both GET and POST, the browser constructs a form data set and encodes it according to the ENCTYPE attribute (you can use multipart/form-data for POST and application/x-www-form-urlencoded (the default) for both POST and GET).

To create fields that let the user specify the server IP address, the port, and the project name, use HTML like the following:

```
<TABLE cellSpacing=1 cellPadding=1 border=1 id=TABLE1 >
  <TBODY>
  <TR>
    <TD>
    <INPUT id=ServerTxt name=ServerTxt value="Server ID"</pre>
      readOnly size=13 style="WIDTH: 107px; HEIGHT: 22px">
    </TD>
```

```
<TD>
    <INPUT id=Server maxLength=50 size=16 value=localhost</pre>
name=Server
     style="WIDTH: 170px; HEIGHT: 22px">
   </TD>
  </TR>
  <TR>
    <TD>
    <INPUT id=PortTxt name=PortTxt value="Port Number"</pre>
      readOnly size=13 style="WIDTH: 107px; HEIGHT: 22px">
    </TD>
    <TD>
    <INPUT id=Port maxLength=50 size=17 value=8080 name=Port</pre>
     style="WIDTH: 170px; HEIGHT: 22px">
  </TR>
  <TR>
  <TRODY>
</TABLE>
<TR>
  <q\><q>
  <INPUT id=DocTxt name=DocTxt value="Document Name"</pre>
   readOnly size=13 style="WIDTH: 107px; HEIGHT: 22px">
  <TD>
  <INPUT id=Doc maxLength=50 size=18 name=Doc style=</pre>
    "WIDTH: 170px; HEIGHT: 22px">
```

To create a drop-down menu that lets the end user specify a render format, use HTML like the following:

```
<SELECT id="select1" name="returntype">
 <OPTION value="jpeg">JPEG</OPTION>
 <OPTION value="pdf">PDF</OPTION>
 <OPTION value="qxpdoc">QuarkXPress document
 <OPTION value="eps">EPS Document
 <OPTION value="postscript">POSTSCRIPT</OPTION>
 <OPTION value="png">PNG</OPTION>
</SELECT>
```

To create a drop-down menu that lets the end user specify a rendering scale, use HTML like the following:

```
<SELECT id="select2" name="scale">
 <OPTION value="1">100%</oPTION>
 <OPTION value="2">200%</OPTION>
 <OPTION value="3">300%</oPTION>
 <OPTION value="5">500%</OPTION>
 <OPTION value=".5">50%</OPTION>
</SELECT>
```

To create input fields that let the end user specify a box name and the name of a file to be imported into that box, use HTML like the following:

```
<TD>
<INPUT id=box1Txt value="Box Name"</pre>
 readOnly style="WIDTH: 181px; HEIGHT: 22px" size=16>
</TD>
<INPUT id=box1 maxLength=256 size=43 style="</pre>
 WIDTH: 293px; HEIGHT: 22px"></TD>
</TR>
<TR>
```

```
<TR>
<TD>
<INPUT id=box1FileTxt value="File on Server"
readOnly style="WIDTH: 181px; HEIGHT: 22px" >
</TD>
</TR>
```

To create fields that let the end user enter a page number a layout number, use HTML like the following:

```
<TABLE cellSpacing=1 cellPadding=1 border=1 style="WIDTH: 188px;
HEIGHT: 61px">
  <TR>
    <TD>
    <INPUT id=PageTxt value = "Page"</pre>
      readOnly style="WIDTH: 50px; HEIGHT: 22px" size=3>
    <input id=Page size="16" maxlength="256"</pre>
      style="WIDTH: 147px; HEIGHT: 22px">
  </TR>
  <TR>
    <INPUT id=LayoutTxt value = "Layout"</pre>
      readOnly style ="WIDTH: 50px; HEIGHT: 22px" size=4>
    </TD>
    <TD>
    <input id=Layout size="16" maxlength="256"</pre>
      style="WIDTH: 147px; HEIGHT: 22px">
  </TR>
</TABLE>
```

To create a button that lets the end user submit the request, use HTML like the following:

```
<input type="submit" value="Render document"
   name="Submit" LANGUAGE="javascript"
   onclick="return Submit onclick()"/>
```

The above HTML calls a function named $Submit_onclick()$. You can add such a function to the $\langle HEAD \rangle$ section of the HTML. For example:

```
<head>
<TITLE>Quark Stream</TITLE>
<script ID="clientEventHandlersJS" LANGUAGE="javascript">
 function Submit onclick() {
 var prefix;
 var renderer;
 var file;
 var url;
 var box1Name;
 var dataImportStamp = "@dataimport";
 prefix = "http://" + document.getElementById("Server").value +
 port = document.getElementById("Port").value + "/";
 renderer = document.getElementById("select1").value + "/";
  file = document.getElementById("Doc").value;
 box1Name = document.getElementById("box1").value;
 if (box1Name != "") {
    document.getElementById("box1File").name = box1Name +
dataImportStamp;
```

```
} else {
    document.getElementById("box1File").name = "";
}
document.getElementById("Page").name = "Page";
document.getElementById("Layout").name = "Layout";
url = prefix + port + renderer + file;
document.getElementById("form1").action = url;
}
</script>
</head>
```

The Submit_onclick() function reads the values from the formand builds a request URL using the server, port, and render type.

- If the end user specifies a file name in the "File on Server" text box, he or she must add file: to the beginning of the file path (for example, file:C:\data.txt).
- The code above adds @dataimport to the end of the box name to accommodate data import.

The action of the form is defined by this line:

```
document.getElementById("form1").action = url;
```

This form's method is GET. The user agent gets the value (the URL) of the action, appends a ? to it, adds the form data set, and submits the URL.

→ In this scenario, form data must be in ASCII.

Using HTTP GET with QXP Server Manager

HTTP GET with QuarkXPress Server Manager works the same way as HTTP GET with QuarkXPress Server (see "Using HTTP GET with QXP Server"), except that Quark does not recommend using GET if you are working with non-ASCII characters. The behavior of GET requests with characters is highly browser-dependent, and there is no standard that all browsers follow. Instead, use POST.

Using HTTP POST with QXP Server

Use HTML like the HTML in "Using HTTP GET with QXP Server" to specify a server and port where you want to send a request. You can specify the name of the target project, the output type, and a scaling value. You can specify the name of a box and the path of a text or picture files to import into that box, as long as the file's path is on the server's file system. You can also use HTML like the HTML in "Using HTTP GET with QXP Server" to specify the page number and layout number of the project. Differences between the GET method and the POST method are described below.

The form section of the HTML should begin with the following line of code:

```
<form id = form1 method="post" enctype="multipart/form-data">
```

The following HTML creates a input fields that let the end user specify the name of a file to be imported into a box:

```
<TD><INPUT id=box1FileTxt value="File on Client"
readOnly style="WIDTH: 180px; HEIGHT: 22px" ></TD>
<TD><input id=box1File type="file"
size="32" maxlength="256" style="WIDTH: 293px;
HEIGHT: 22px">
</TD></TR>
```

The action of the form is defined by this line:

```
document.getElementById("form1").action = url;
```

The form's method is POST. The user agent conducts an HTTP post transaction using the value of the action attribute (the URL), and a message is created according to the content type specified by the enctype attribute.

When you use a multipart HTTP post request, you can include in the request any files which are required by the rendering process, including QuarkXPress templates, picture files, modifier XML, and digital publishing assets. For more information, see "Using the Streaming Document Provider."

Using HTTP POST with QXP Server Manager

HTTP POST with QuarkXPress Server Manager works the same way as HTTP POST with QuarkXPress Server (see "Using HTTP POSTwith QXP Server"), except that with QuarkXPress Server Manager, you must use UTF-8.

Getting started: Web services

The Web services interface is a collection of request classes. You can download the SDK WSDL class definitions from

http://[server]:[port]/qxpsm/services/RequestService?wsdl (replace [server] with the QuarkXPress Server Manager computer's IP address and [port] with the QuarkXPress Server Manager port number.

These classes can be chained together to form compound QuarkXPress Server requests. The sample applications (see "Sample Applications") show how to use these classes to invoke a QuarkXPress Server command and manipulate the response.

For more information, see "Functions." In addition to the classes listed there, the Web services interface includes the following:

- RequestService processes QuarkXPress Server requests. This object's generic processRequest() method takes a QRequestContext argument and returns a QContentData object containing the response. For more information, see the sample applications and "Functions."
- QRequestContext is the argument you pass to RequestService's generic processRequest() method.This object contains settings which must be set once per request. Set all chained requests inside the request context.
- QRequest is the base class for all request objects (such as PDFRenderRequest). Consequently, all request objects share some common data members.
- RequestParameters is a generic class for executing any request and for adding dynamic properties to a request.
- NameValueParam is a generic class for adding dynamic properties to a request. This class is specifically for requests that take a box's name and/or ID as the parameter name and the box's content as the value.
- QContentData is the response returned when a request is executed. QContentData is a hyperlink that follows the same pattern as the classes above.
- QException is the exception class for QuarkXPress Server Manager. Web services returns a QException object if an error occurs with any Web service method. You can use try/catch blocks to handle QException objects.

USING QUARKXPRESS SERVER

If you've written a Server XTensions module, you can extend the XML interface to include any changes it makes to the Modifier DTD by simply modifying an XML file and regenerating the stubs.

- To exclude empty tags in the request HTML, set the value of the appropriate variable to null.
- For Javadocs, WSDL schemas, and JSP samples, see the Welcome page that displays when you launch QuarkXPress Server Manager.

The following topics describe the general Web services classes.

QRequestContext

Description	An argument passed to RequestService. Contains settings that must be set once per request. All chained requests must be set inside the request context.				
Туре	Web service data object				
71	Name	Types	Description		
		71	File or object name on		
	documentName	String	which the command		
			will be rendered.		
			Server name. Default is		
			NULL. Load balancer		
	serverName	String	searches for the host		
			itself in this case.		
			Port at which the		
	serverPort	Integer	desired server is		
			listening.		
			Server admin		
	userName	String	username.		
	userPassword	String	Server admin password.		
			Max number of times		
	D 4 3	Integer	to try executing the		
Members	maxRetries		command before		
			returning failure.		
	(T)	Integra	Max time out in		
	requestTimeout	Integer	milliseconds.		
			Indicates whether the		
			cache should be		
		Daalaan	checked for an existing		
	useCache	Boolean	result or if the		
			command should be		
			executed again.		
			This value indicates		
			whether the server		
			should send the		
	responseAsURL	Boolean	response as-is (text or		
			binary) or store the		
			response on the server		
			and return its location		

	1		IIDI D d	
			as a URL. Because the	
			object model works on	
			SOAP, which can be	
			slow when transferring	
			large binary files, you	
			might choose to set this	
			value to "true" if you	
			suspect that the	
			response is going to be	
			several megabytes or	
			larger.	
			Indicates whether file	
	bypassFileInfo	Boolean	info should be fetched	
			before executing the	
			command.	
	context	String	Context in which the	
			command is being	
			executed.	
		QRequest	QuarkXPress Server	
	request		request is instances of	
			request objects chained	
			together.	
	com.quark.qxpsm.QReq	uestContext rc = new		
	com.quark.qxpsm.QReq	uestContext(); rc.docume	ntName =	
	this.DocumentSettings1.documentName.Text; rc.responseAsURL =			
n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	this.DocumentSettings1.responseAsURL.Checked; rc.useCache =			
Example, object model	this.DocumentSettings1.useCache.Checked; rc.bypassFileInfo =			
	this.DocumentSettings1.	bypassFileInfo.Checked;	//Create the service and	
	call it QRequestContext	object RequestService svc	= new RequestService();	
	com.quark.qxpsm.QCon	itentData qc = svc.process	Request(rc);	

${\bf Request Service}$

	Web service called to process the QuarkXPress Server request. RequestService
Description	has a generic method named processRequest() that takes QRequestContext as
	an argument and returns QContentData as the QuarkXPress Server response.
Туре	Web service

		Processes the reque	st context and return	ns the result.
		Parameter	Туре	Description
	processRequest	requestCmd	QRequestContext	Argument passed to RequestService. Contains settings that must be set once per request.
				All chained requests are set inside the request context.
		Creates a new session	on and returns a sess	
		Parameter	Туре	Description
Methods	createSession	timeout	Long	Timeout for the session in milliseconds. If no call is executed in that time, session is expired and all the open documents in that session are closed without saving. If 0 is passed as value of timeout, default timeout is used. If a negative value is passed as timeout, the session never expires.
	closeAlldocs	Closes all open documents in the session without saving them. If the session does not exist, an error is returned. If an error occurs while closing the document, it is logged and the document is marked closed in the internal cache. No error is returned. Parameter Type Description Session whose documents are to be closed. Closes the specified document without saving it. If the session does not exist, an error is returned. If the document is not open, and error is returned. If the document is open in another session, an error is returned. If an error occurs while closing the document, it is logged and the document is marked closed in the internal cache. No error is		
		Parameter	Туре	Description
		docName	String	Document to be
				closed.

	sessionId		
			1
	Parameter	Туре	Description
			Session to be
	sessionId	String	closed.
	Gets all the open de	ocuments in the sess	
	does not exist, an e		310111 11 1110 00001011
	Parameter	Туре	Description
getOpenDocs		71	Session whose
	sessionId	String	open documents
			are sought.
getOpenSessions	Gets all open session	ns.	1 0
getPreferences	Gets QuarkXPress S		
setPreferences	Sets QuarkXPress So		
getXPressDOM		the specified docum	ent.
		ment for modification	
		notice. The docume	_
	_		document, use the
	1 -	API. If a document w	
			the session does not
	exist, an error is ret		the session does not
	Parameter	Туре	Description
	T drufffeter	1) pc	Document to be
			opened for
			modification.
			Provide the name
	docName	String	only. You can
	doctvarie	ounis	proivde a relative
			path when you
			save the
			document.
			Name of the Job
newDoc			Jackets file to be
			used. The Job
			Jackets file is
	iohlackotNama	String	assumed to be
	jobJacketName	String	
			already available
			on the
			QuarkXPress
			server computer.
	jobTicketName	String	Name of the Job
			Ticket to be used.
			The QuarkXPress
			Server instance
			that should be
	host	String	used for this
			document
			modification. If

				null, this value is supplied by the
				load balancer. If
				the indicated
				server is not an
				active registered
				server, an error is
				thrown.
				The port for the
				server specified in
		port	Integer	the host
				parameter.
				Session in which
		sessionId	String	the document
		Sessionia	Jung	should be opened.
		Onens the specified	I I document and keep	
			e document is alread	-
			sion does not exist, a	· -
		Parameter	Туре	Description
		- 4141110101	-78~	Document (along
				with relative path
		docName	String	if required) to be
		doctvanie	String	opened for
				modification.
				QuarkXPress
			String	Server instance
				which should be
		host		used for this
	openDoc			document
				modification. If
				null, this value is
				supplied by the
				load balancer. If
				the indicated
				server is not an
				active registered
				server, an error is
				thrown.
				The port for the
				server specified in
	port	Integer	joci vei opeenieu ni i	
		port	Integer	I - I
		port	Integer	the host
		port	Integer	I - I
				the host parameter. Session in which
		sessionId	Integer	the host parameter. Session in which the document
		sessionId	String	the host parameter. Session in which the document should be opened.
		sessionId Executes the reques	String	the host parameter. Session in which the document should be opened. ID is specified,
	processRequestEx	sessionId Executes the requesthe document is ke	String st context. If a session pt open after the req	the host parameter. Session in which the document should be opened. ID is specified, uest is executed. If
	processRequestEx	sessionId Executes the request the document is key no session ID is spe	String	the host parameter. Session in which the document should be opened. ID is specified, uest is executed. If executed normally

		lopen in another se	ssion an error is reti	irned If the		
		open in another session, an error is returned. If the document is marked dirty, an error is returned (a				
		document is marked dirty when the server that opened the				
		document has become inactive; in such a case, the				
			closed and opened a			
		Parameter	Туре	Description		
		Tarameter	Турс	Request to be		
		reqContextObj	QRequestContext	executed.		
				Session in which		
				the request should		
				be executed. This		
				value may be null.		
				If a session ID is		
				provided, the		
		sessionId	String	document is kept		
				open. If no session		
				ID is provided, the		
				request is executed		
				normally, as if		
				processRequest		
				had been called.		
		Saves all open docu	iments in the session	n. The documents		
		are saved one by one. If error occurs while saving a				
		document, an error is returned immediately and the rest of				
		the documents remain unsaved. If a document is marked				
		dirty, an error is returned (a document is marked dirty				
		when the server that opened the document has become				
		inactive; in such a case, the document must be closed and				
		opened again).				
		Parameter	Туре	Description		
				Relative path		
				where open		
				documents should		
	saveAllDocs			be saved. If this		
	saveAliDocs			value is provided,		
				copies of open documents with		
		malatizzaDath	State of	1		
		relativePath	String	changes made so far are saved in the		
				new location. The		
				open documents		
				are not saved but		
				have all of the		
				changes made so		
				far.		
			1	Session in which		
		sessionId	String	the document		
				exists.		
		0 1				
	saveDoc	Saves the open doc	rument. If a docume	nt is marked dirty,		
	-	-				

		an error is returned	l (a document is mar	ked dirty when the	
		server that opened	the document has b	ecome inactive; in	
		such a case, the do	cument must be clos	sed and opened	
		again).			
		Parameter	Туре	Description	
				Document to be	
				saved. Must be the	
				same name that	
		docName	String	was used when	
				opening or	
				creating the	
				document.	
				New name of the	
				document. If null,	
		newName	String	the document is	
				saved with the old	
				name.	
				Relative path	
				where the	
				document should	
		relativePath		be saved. The	
				relative path can	
				also contain the	
				new name of the	
				document. If this	
			String	is provided, a copy	
				of the open document with	
				changes made so	
				far is saved in the	
				new location. The	
				open document is	
				not saved but has	
				all of the changes	
				made so far.	
				Session in which	
		sessionId	String	the document	
		_		exists.	
	getXPressDOMEx	Lets you create a D layout.	OM of a particular la	ayout or portion of a	
	getXMLFromXPres sDOM	Creates an XML str	ring out of the DOM		
	getXPressDOMFro mXML	Takes a raw XML representation of a project as a strin returns an object model representing that project, will Project as the root class.			
	ORequestContext ro			tName = "test.qxp";	
Example, object	_	=	Request jpegRequest		
model	_		Request; RequestSe		
inouci	_		ise = svc.processRequ		
	ricquestoervice(), Q	ContextData respon	ise - sve.processivequ	1651(16),	

QRequest

Description	I	Base class for all request objects (such as PDFRenderRequest). All request objects share some common data members, which are described below.			
Туре	Web service data	Web service data object			
	Name	Types	Description		
	request	QRequest	QuarkXPress Server		
Members			request that includes		
Members			instances of request		
			objects chained		
			together.		

RequestParameters

Description	Generic class for executing any request and for adding dynamic properties				
Description	to a request.				
Туре	Web service data object				
	Name	Туре	Description		
			Namespace of the		
	requestNamespace	String	request (for example,		
Members			jpeg).		
			Parameter array for the		
	params	NameValueParam[]	specified request (for		
			example, jpegquality).		
	You can use this class to send any request for which a specific class does				
	not exist. When this request exists in the chain, its namespace is				
Additional comments	concatenated with the namespaces of other requests. That means the				
	namespace provided here can be null. The parameters of this class can be				
	used to parameterize a request being sent to the server.				
	QRequestContext rc = new QRequestContext(); RequestParameters request				
	= new RequestParameters(); request.setRequestNamespace("jpeg");				
Example, object model	rc.setRequest = request; NameValueParam p1 = new NameValueParam();				
	p1.setParamName = "jpegquality"; p1.setTextValue = "4";				
	request.setParams(new N	NameValueParam[]{p1});			

NameValueParam

Description	Generic class for adding dynamic properties to a request. This class is specifically for requests that take a box name/id as the parameter name and the box content as the parameter value.			
Type	Web service data object			
	Name	Туре	Description	
Members	paramName	String	Name of the parameter. In most cases this will be the name/ID of the box.	
	textValue	String	Text value of the box. (You can set either textValue or	

			streamValue.)
	Mark Walne		Stream value of the
			box. (You can set either
	streamValue	byte[]	textValue or
			streamValue.)
		String	The MIME content type
	contentType		of the parameter.

QContentData

Description	A response to a Web Services call to QuarkXPress Server.			
Type	Web service data object	Web service data object		
	Name	Types	Description	
			The type of the	
	aontont Trans	C	response. For example,	
	contentType	String	"text/xml" or	
			"text/plain."	
			If the response type is	
	tantData	Ctuin o	text, this contains the	
	textData	String	text. Otherwise, this	
			value is null.	
			If the responseAsURL	
			parameter was set to	
			"true" in the request,	
	responseURL	String	this contains the URL	
			of the response.	
			Otherwise, this value is	
			null.	
			If the response type is	
		binary	binary, this contains	
Members	streamValue		the byte array.	
			Otherwise, this value is	
			null.	
		String	If the response type is	
			text, this value	
	on as din aTrans		indicates the encoding	
	encodingType		of the text (for	
			example, UTF-8 or	
			ANSI).	
	a otyral Contror Dont Lload	String	Identifies the server	
	actualServerPortUsed	String	port.	
	actualServerUsed	String	Identifies the server.	
			If the response returned	
			by the server is a set of	
	headers	String	headers, this array	
			contains the header	
			response.	
	1(1	Ct	If the response returned	
	multipartResponse	String	by the server is	
		ļ	,	

			multipart, this array
			contains the multipart
			response parts.
	QRequestContext contex	kt = new QRequestContex	ct();
	context.setDocumentName("sample.qxp");		
	context.setResponseAsURL(true); JPEGRenderRequest request = new		
E-communication of the state of all	JPEGRenderRequest(); request.setJPEGQuality("4");		
Example, object model	context.setRequest(request); RequestService requestService = new		
	RequestServiceStub(); QContentData response =		
	requestService.processRequest(context);		
	System.out.println(respo	onse.getResponseURL());	

QException

Description	Exception class for QuarkXPress Manager.			
Туре	Exception			
	Name	Types	Description	
	httpResponseCode	String	HTTP response code.	
	managorErrorCodo	String	QuarkXPress Server	
	managerErrorCode	Stillig	Manager error code.	
			QuarkXPress Server	
	managerErrorMessage	String	Manager localized error	
Members			message.	
	serverErrorCode	String	QuarkXPress Server	
	servererrorcode	String	error code.	
	serverErrorMessage	String	QuarkXPress Server	
			response message.	
	serverExtendedMessage	String	QuarkXPress Server	
			extended error message.	
	String docName = "notexisting.qxp"; try { QRequestContext ctx =			
	getRequestContext(docName);			
	ctx.setRequest(ctx); QContentData response =			
Example, object model	getService().processRequest(ctx);			
Lxample, object model	System.out.println(response.getResponseURL()); } catch (QException ex) {			
	// QuarkXPress Manager threw an QException and it is not // a runtime			
	exception. QException object will be returned.			
	System.out.println(ex.getServerErrorCode()); }			

QXP Server Manager

The following topics are for people who want to enhance QuarkXPress Server Manager or integrate it with other software.

Please refer to http://localhost:8090/qxpsmdocs/apidocs/index.html for manager API documentation. (Note that the port number used to retrieve the API documentation is 8090 by default, but you should use whatever port number you specified when installing QuarkXPress Server Manager.)

QuarkXPress Server Manager was developed using interface-based programming and uses the Spring Framework to instantiate pluggable objects. When QuarkXPress Server Manager starts up, it reads the contents of a Spring context definition file

named "ManagerContainerConfig.xml" and instantiates all of the beans listed in the file. QuarkXPress Server Manager then initializes by reading various configuration options from a file named "ManagerConfig.xml."

You can deploy QuarkXPress Server Manager in its own Tomcat container, in an external Tomcat container, or in a shared Spring context. For more information, see "Deploying QuarkXPress Server Manager" in the QuarkXPress Server ReadMe.

Using the Web interface

The topics below describe the features available via the QuarkXPress Server Web interface. The topics covered here include the following:

- Render types are namespaces you can use to return a QuarkXPress project in a specified file format.
- Render modifiers let you control which parts of a project are rendered and set the scale of the returned renderings.
- Content modifiers let you alter the content and formatting of boxes in layouts without using the XML modify parameter.
- XML modify lets you modify QuarkXPress projects using XML.
- The xml namespace deconstructs a project according to the Modifier DTD. The construct namespace lets you turn an XML representation of a QuarkXPress project back into a QuarkXPress project.
- Administrative request handlers let you change the behavior of QuarkXPress Server.
- QuarkXPress Server uses case-sensitive XML.

Understanding rendering

Rendering is the process in which QuarkXPress Server opens a QuarkXPress project, transforms it into a different format (the render type), and then sends a response to the requestor. Depending on the type of rendering operation, the response may be a message or a rendered file.

For information on how to submit a render request, see "Getting Started."

	Cannot open this document	HTTP Error #500 This alert
	type. Please select a	displays if you try to render a
	QuarkXPress document or	file that is not a QuarkXPress
	template.	project.
		HTTP Error #404 QuarkXPress
	File not found	Server Error #–43 This alert
Alerts	File flot found	displays if you try to render a
Theres		project that does not exist.
		HTTP Error #500 QuarkXPress
	I/O error trying to read or write	Server Error #–36 This alert
		displays if QuarkXPress Server is
	to disk.	running on Windows and a
		shared network folder was

		selected as the document pool,	
		but the folder is no longer	
		shared. What to do: In the	
		QuarkXPress Server	
		administration interface, choose	
		Administration > Preferences >	
		General and set Document Root	
		Folder to a shared folder.	
		HTTP Error #404 QuarkXPress	
		Server Error #–35 This alert	
		displays if QuarkXPress Server is	
		running on Mac OS and a	
		shared network volume was	
	Cannot find required volume or folder.	selected as the document pool,	
		but the volume is no longer	
		shared. What to do: In the	
		QuarkXPress Server	
		administration interface, choose	
		Administration > Preferences >	
		General and set Document Root	
		Folder to a shared folder.	
Logs	See "Understanding logging."		
Example, GET URL	http://localhost:8080/sample.qxj	p	
	There are two ways to specify a re	ender format:1. Enter the render	
	type directly in the browser address		
Notes	field:http://localhost:8080/pdf/project.qxp.2. In the QuarkXPress		
Two tes	Server administration interface, choose Administration >		
	Preferences > General and choose the default render type from		
	the Default Renderer Type drop-down menu.		

Understanding logging

If a request succeeds, a transaction success message is written to the QuarkXPress Server transaction log file. This message includes the transaction ID, date, time, request type, project name, response type, response size in bytes, and client IP address. For example:

```
07/03/2011 14:37:47 - RequestURI = /xml/sample.qxp
TransactionUUID = afb6f457-80ae-4d5d-a434-ce9f3e089761 Client =
10.91.30.216 Type = text/xml Size = 4846
```

If an alert is displayed, an error message is written to the QuarkXPress Server transaction log file. The transaction entry contains the date and time of the request, the error code, and the error message. The following is a sample of an error log transaction entry:

```
09/03/2011 13:54:33 - RequestURI = /sample.qcd TransactionUUID =
dffc3a7e-11fd-4d97-b3fe-8f2129353d58 Client = 10.91.30.216
Error #10120 - Cannot open this document type. Please select a
QuarkXPress document or template.
```

The "QuarkXPress Server Log.log" file also contains system-level log information. For example, if a request makes a renderer stop working, you can figure out which request it was using the transaction ID and the transaction log.

```
09/03/2011 014:00:07 ERROR
```

[com.quark.qxps.core.server.ServerRendererMonitor][pool-1-thread-1] - The QuarkXPress Server Renderer with processId 2620 had quit while processing the transaction 87212dae-6ba3-4b3f-97bbea8f0c255bf9.

To download all logs to a non-server computer, click Show Transaction Log in the QuarkXPress Server Web interface, then click Download Logs on the upper right.

Understanding render types

Render types are namespaces you can use to return a QuarkXPress project in a specified file format. The topics covered here include the following:

Function	Description	QuarkXPress Server Manager object model classes
appstudio	Returns a .zip file containing an App Studio article rendered from the App Studio layout(s) in the source project.	AppStudioRenderRequest
ave	Returns a .zip file containing an AVE issue file and its corresponding manifest.	AVERenderRequest
eps	Returns an EPS file.	EPSRenderRequest
epub	Returns an ePUB file.	EPubRenderRequest
jpeg	Returns a JPEG image.	JPEGRenderRequest
PDF	Returns a PDF file.	PDFRenderRequest
png	Returns a PNG image.	PNGRenderRequest
postscript	Returns a PostScript file.	PostScriptRenderRequest
qcddoc	Returns a QuarkCopyDesk article.	CopyDeskDocRequest
qxpdoc	Returns a QuarkXPress project file.	QuarkXPressRenderRequest
qxpr	Returns an RLE Raw Custom format image.	RLERawCustomRenderRequest
raw	Returns a project in a QuarkXPress internal format.	RawCustomRenderRequest
screenpdf	Returns a low-resolution PDF file.	ScreenPDFRenderRequest
swf	Returns a SWF file.	SWFRenderRequest
html5	Returns a .zip file containing HTML5 output.	HTML5RenderRequest

- → The default render type is JPEG.
- → Developers can implement additional rendering formats through server XTensions software.

appstudio

The appstudio render type returns a .zip file containing an App Studio article rendered from the App Studio layout(s) in the source project. It also includes mechanisms for uploading an article to the App Studio Publishing Portal, retrieving and updating server settings, and presenting and clearing App Studio Publishing Portal credentials.

Namespace	appstudio		
	upload	String	Lets you generate an HTML5 article and upload it to the App Studio Publishing Portal. For example:http://localhos t:8080/ appstudio/upload/temp late.qxp? organization=XXX& publication=YYY&issue =ZZZ& article=AAA
	html	String	Lets you generate an HTML5 article and returns it as a .zip file. For example:http://localhos t:8080/ appstudio/html/templa te.qxp
Parameters	setcredential	String	Lets you log in to the App Studio Publishing Portal. For example:http://localhos t:8080/ appstudio/setcredential ? username=XXX&passw ord=YYY
	clearcredential	String	Lets you log out of the App Studio Publishing Portal. For example:http://localhos t:8080/ appstudio/clearcredenti al
	config	String	Lets you retrieve the current publication hierarchy from the App Studio Publishing Portal. For example:http://qxpserver:port/appstudio/config
Render modifier	layout	String	Lets you specify a

			layout by name or ID.	
			The first layout is	
			Layout 1.	
parameters	page	Integer	Lets you specify a page.	
		String (naga ranga)	Lets you specify a range	
	pages	String (page range)	of pages.	
Response	A .zip file containing an	HTML5 article.	•	
	The renderer for this			
	image type has no way	HTTP Error #406 This ale	ert displays if you submit	
	of rendering the desired	a render request with the	e box parameter.	
Alerts	objects.			
Alerts	Cannot open this	UTTD Error #10120This	plant displays if you	
	document type. Please	HTTP Error #10120This alert displays if you		
	select a QuarkXPress	submit an appstudio request for a		
	document or template.	QuarkCopyDesk article.		
Logs	See "Understanding logging."			
Example, GET URL	http://localhost:8080/appstudio/sample.qxp			
	Request object name: AppStudioRenderRequest // STEP 1: Create the			
	QuarkXPress Server Request // Context and set the necessary properties			
	com.quark.qxpsm.QRequestContext requestCtx = new			
	com.quark.qxpsm.QRequestContext(); Boolean responseAsURL = false;			
	requestCtx.setDocumentName(docName); // STEP 2 (SPECIFIC TO			
	REQUESTS): // Create the App Studio renderer // request and embed it in			
Example, object model	the request context. AppstudioRenderRequest req = new			
	AppstudioRenderRequest();			
	req.setAppStudioData(request.getParameter("AppStudioData"));			
	requestCtx.setRequest(req); // STEP 3: Create the service and call the //			
	processRequest() API RequestService service = new RequestServiceStub();			
	com.quark.qxpsm.QContentData data =			
	service.processRequest(requestCtx);			

ave

The ${\tt ave}$ render type returns a .zip file containing an AVE issue file and its corresponding manifest.

Namespace	AVE		
Parameters	outputstyle	stylename	Lets you specify an output style. To use a named output style, use the name of that output style. For example:http://localhost:8080/ave/sample.qxp?outputstyle=stylename To use settings that have been captured with the Capture Settings in the QuarkXPress Export

			AVE for iPad dialog	
			I - I	
			box, use document. For	
			example:http://localhos	
			t:8080/ave/	
			sample.qxp?outputstyle	
			=document	
			Lets you specify an	
			output format. Use	
	format	String	avemag for AVE-Mag or	
			avedoc for AVE-Doc.	
			The default is avemag.	
Render modifier			Lets you specify a	
parameters	layout	String	layout by name or ID.	
	layout	String	The first layout is	
			Layout 1.	
	page	Integer	Lets you specify a page.	
	nagas	String (naga ranga)	Lets you specify a range	
	pages	String (page range)	of pages.	
Response	A .zip file containing an	AVE issue file and its corr	esponding manifest.	
	The renderer for this			
	image type has no way	HTTP Error #406 This ale	ert displays if you submit	
	of rendering the desired			
	objects.			
	This Output Style does	This alert displays if you	specify a nonexistent	
	not exist.	output style.		
	This Output Style	This alert displays if you specify an output style that is incompatible with this render type.		
	cannot be used with			
Alerts	this render type.			
	Cannot open this	HTTP Error #10120This alert displays if you		
	document type. Please			
	select a QuarkXPress	submit an ave request fo	r a QuarkCopyDesk	
	document or template.	article.		
	AVE-Doc for an App	HTTP Error #10545This	alert displays if you	
	Studio layout is not		ith format=avedoc for an	
	supported.	App Studio layout.		
Logs	See "Understanding logg			
Example, GET URL		e/sample.qxp? format=av	emag&lavout=2	
Enumpre, GET GILE				
	Request object name: AVERenderRequest //STEP1: Create the QuarkXPress			
	Server Request //Context and set the necessary properties			
	com.quark.qxpsm.QRequestContext requestCtx = new			
	com.quark.qxpsm.QRequestContext(); Boolean responseAsURL = false;			
	requestCtx.setDocumentName(docName); //STEP 2(SPECIFIC TO			
	REQUESTS): //Create the AVE renderer //request and embed it in the			
Example, object model	request context. AVERenderRequest avereq = new AVERenderRequest();			
	avereq.setAVEData(request.getParameter("AVEData"));			
	avereq.setFormat(request.getParameter("Format"));			
		t.getParameter("Layout")		
	requestCtx.setRequest(avereq); //STEP3: Create the service and call the			
	//processRequest() API RequestService service = new RequestServiceStub();			
	com.quark.qxpsm.QCon	tentData data =		
L				

USING QUARKXPRESS SERVER

	service.processRequest(requestCtx);	
Notes	The default AVE output style is used.	

eps

The $\ensuremath{\mathtt{eps}}$ render type returns an EPS rendering of a page or spread.

Namespace	EPS		
	outputstyle	stylename	Lets you specify an output style. To use a named output style, use the name of that output style. For example:http://localhos t:8080/pdf/sample.qxp?outputstyle =stylename To use settings that have been captured with the Capture Settings in the QuarkXPress Print dialog box, use document. For example:http://localhos t:8080/pdf/sample.qxp?outputstyle =document
Parameters	epsformat	color	Lets you specify an EPS format. The default value is color.
	epspreview	tiff none	Lets you include or omit a TIFF preview. The default value is tiff.
	epsdata	ascii binary clean8bit	Lets you specify a data type for the EPS file. The default value is clean8bit.
	epstransparent	1 0 true false yes no	Lets you specify whether the EPS can include transparent areas.
	updateimage	true false	Lets you specify whether to update imported pictures.
	updateflow	true false	Lets you specify whether to update the text flow version of a project to the current version.
Render modifier	page	Integer	Lets you specify a page.

	I		
	produceblankpages	1 0 true false yes no	Lets you specify whether to render blank pages.
	scale	Float .1 to 6.92 for Windows .1 to 8 on Mac OS	Lets you specify a scaling percentage. The valid values are from .1 (10%) to 8 (800%) on Mac OS or 6.92 (692%) on Windows.
parameters	spread	Integer	Lets you specify a spread. The first spread is spread 1. In a facing-page document, spread 1 consists of the first page.
	layout	String	Lets you specify a layout by name or ID. The first layout is Layout 1.
	downloadlayoutFonts	1 0 true false yes no	Lets you specify whether to download all fonts used in the layout and all system fonts.
	downloadImportedPdfE psFonts	1 0 true false yes no	Lets you specify whether to download all fonts required by imported PDF and EPS files.
Response	An EPS file.	•	•
	The renderer for this image type has no way of rendering the desired objects.	La render request with the nages or hox	
Alerts	This Output Style does not exist.	This alert displays if you specify a nonexistent output style.	
	This Output Style cannot be used with this render type.	This alert displays if you specify an output style that is incompatible with this render type.	
Logs	See "Understanding logg	ring."	
Example, GET URL	http://localhost:8080/eps/sample.qxp?epsformat= color&epsdata=clean8bit&epspreview=tiff&epsbleed= 0&epstransparent=0		
Example, object model	Request object name: EPSRenderRequest //STEP1: Create the QuarkXPress Server Request //Context and set the necessary properties com.quark.qxpsm.QRequestContext requestCtx = new com.quark.qxpsm.QRequestContext(); Boolean responseAsURL = false; requestCtx.setDocumentName(docName); //STEP 2(SPECIFIC TO REQUESTS): //Create the EPS renderer //request and embed it in the request context. EPSRenderRequest epsreq = new EPSRenderRequest();		

	epsreq.setEPSData(request.getParameter("EPSData"));
	epsreq.setEPSFormat(request.getParameter("EPSFormat"));
	epsreq.setEPSPreview(request.getParameter("EPSPreview"));
	requestCtx.setRequest(epsreq); //STEP3: Create the service and call the
	//processRequest() API RequestService service = new RequestServiceStub();
	com.quark.qxpsm.QContentData data =
	service.processRequest(requestCtx);
	You can specify an output style and set additional local parameters of that
	output style. For example, if no bleed setting is specified in the output
	style named "mystylename", you can specify a bleed setting with a URL
	like the following:http://localhost:8080/eps/sample.qxp?
Notes	outputstyle=mystylename?bleed=symmetric You can override settings in
	an output style. For example, if an asymmetric bleed is specified in the
	output style named "mystylename," you could override it with the same
	URL.If you do not specify an EPS output style, the default EPS output style
	is used.

epub

The ${\tt epub}$ render type returns an ePUB rendering of a layout.

Namespace	ePUB		
Render modifier	layout	String	Lets you specify a layout by name or ID. The first layout is Layout 1.
parameters	outputstyle	String	Lets you specify an ePUB output style by name or ID.
Response	An ePUB (.epub) file.		
of rendering the desired		HTTP Error #406 This ale a render request with the parameter.	ert displays if you submit e pages or box
	ePub not created. There is no reflow layout in the document.	HTTP Error #10543This error appears if there is no reflow layout.	
Logs	See "Understanding logging."		
Example, GET URL	http://localhost:8080/epub/sample.qxp? outputstyle=epub1&layout=2		
Example, object model	Request object name: EPubRenderRequest //STEP1: Create the QuarkXPress Server Request //Context and set the necessary properties com.quark.qxpsm.QRequestContext requestCtx = new com.quark.qxpsm.QRequestContext(); Boolean responseAsURL = false; requestCtx.setDocumentName(docName); //STEP 2(SPECIFIC TO REQUESTS): //Create the ePUB renderer //request and embed it in the request context. EPubRenderRequest epubreq = new EPubRenderRequest(); epubreq.setEPubData(request.getParameter("EPubData")); epubreq.setCreateTOC(request.getParameter("CreateTOC")); epubreq.setLayout(request.getParameter("Layout")); requestCtx.setRequest(epubreq); //STEP3: Create the service and call the		

//processRequest() API RequestService service = new RequestS		
	com.quark.qxpsm.QContentData data =	
service.processRequest(requestCtx);		
Notes	You can only create an ePUB file from a project that includes a reflow	
Notes	article.	

jpeg

The <code>jpeg</code> render type returns a JPEG rendering of a page or spread.

Namespace	JPEG	JPEG		
	jpegquality	1 2 3 4	Lets you specify the image quality of a rendered JPEG image. The valid values are: 1 (highest quality), 2 (high quality), 3 (medium quality), and 4 (lowest quality). The default value is 1.	
	upadateimage	true false	Lets you specify whether to update imported pictures.	
	updateflow	true false	Lets you specify whether to update the text flow version of a project to the current version.	
Parameters	pasteboard	true false	Lets you specify whether to display pasteboard items. Works only with spread parameter. The default value is true. For example:http://localhos t:8080/jpeg/document. qxp? spread=1&pasteboard=t rue	
	showboxoutline	true false	Lets you specify whether to include bounding box outlines in the response JPEG image even if the boxes have no content The default value is false.	
	download	true false	Renders the images in a Zip package for download.	

	pages	true false	Lets you specify a range		
	pages	true raise	of pages for request. (5-		
			8,1-3 etc.)		
			Lets you request		
	boxes	String	1 '		
			multiple boxes.		
	page	Integer	Lets you request a		
			single page.		
	scale	Float .1 to 6.92 for Windows .1 to 8 on Mac OS)	Lets you specify a scaling percentage. The valid values are from .1 (10%) to 8 (800%) on Mac OS or 6.92 (692%) on Windows.		
Render modifier			Lets you request a		
	box	String	single box.		
parameters	spread	Integer	Lets you specify a spread. The first spread is spread 1. In a facing-page document, spread 1 consists of the first page.		
	layout	String	Lets you specify a layout by name or ID. The first layout is Layout 1.		
Response	A JPEG file.				
Logs	See "Understanding logging."				
Example, GET URL	http://localhost:8080/jpeg/sample.qxp?jpegquality=1				
		EGRenderRequest // STEP	-		
	QuarkXPress Server Request // Context and set the necessary properties				
	com.quark.qxpsm.QRequestContext requestCtx = new				
	com.quark.qxpsm.QRequestContext(); Boolean responseAsURL = false;				
	requestCtx.setDocumentName(docName); // STEP2: Create the JPEG				
	renderer request and attach it // to the request context.				
Example, object model	JPEGRenderRequest jpreq = new JPEGRenderRequest();				
Example, object model	jpreq.setJPEGQuality(request.getParameter("jpegQuality"));				
	jpreq.setJrEGQuanty(request.getParameter("JpegQuanty")); jpreq.setLayout(request.getParameter("Layout"));				
	requestCtx.setRequest(jpreq); // STEP3: Create the service and // call the				
	processRequest() API RequestService service = new RequestServiceStub();				
	com.quark.qxpsm.QContentData data =				
	service.processRequest(requestCtx);				
	service.processkequesi(requesiCix);				

kindle

The ${\tt kindle}$ render type returns a rendering of a layout that can be viewed on Amazon Kindle readers.

Namespace	kindle		
Render modifier parameters	layout	String	Lets you specify a layout by name or ID.

			The first layout is
			Layout 1.
			Lets you specify a
	outputstyle	String	Kindle output style by
			name or ID.
Response	A Kindle (.mobi) file.		
	The renderer for this	HTTP Error #406 This alert displays if you submi	
	image type has no way	a render request with the	1 , ,
	of rendering the desired	parameter.	e pages of box
Alerts	objects.	parameter.	
THEITS	Kindle not created.		
	There is no reflow	HTTP Error #10543This	error appears if there is
	layout in the	no reflow layout.	
	document.		
Logs	See "Understanding logging."		
Example, GET URL	http://localhost:8080/kindle/sample.qxp? outputstyle=kindle&layout=2		
	Request object name: KindleRenderRequest //STEP1: Create the		
	QuarkXPress Server Request //Context and set the necessary properties		
	com.quark.qxpsm.QRequestContext requestCtx = new		
	com.quark.qxpsm.QRequestContext(); Boolean responseAsURL = false;		
	requestCtx.setDocumentName(docName); //STEP 2(SPECIFIC TO		
	REQUESTS): //Create the Kindle renderer //request and embed it in the		
	request context. KindleRenderRequest kindlereq = new		
Example, object model	KindleRenderRequest();		
	kindle req. set Kindle Data (request. get Parameter ("Kindle Data"));		
	kindlereq.setCreateTOC(request.getParameter("CreateTOC"));		
	kindlereq.setLayout(request.getParameter("Layout"));		
	requestCtx.setRequest(kindlereq); //STEP3: Create the service and call the		
	//processRequest() API RequestService service = new RequestServiceStub();		
	com.quark.qxpsm.QContentData data =		
	service.processRequest(requestCtx);		
Notes	You can only create a Kindle file from a project that includes a reflow		
	article.		

literal

The literal render type returns the contents of a file without any attempt to process it as a template. Depending on the file's MIME type, the requested project can be displayed within the browser (for example, if the response is a JPEG file) or saved to disk (for example, if the response is a Microsoft Word document).

Namespace	literal		
Response	The requested file returned in the HTTP response.		
Alerts	Incorrect administration realm username and password.	HTTP Error #401 This alert displays if you specify an invalid administrator user name and password. What to do: Use the user name and password set in the Authentication pane of the General Preferences dialog	

		box (Administration >	
		Preferences > General) in the	
		QuarkXPress Server Web	
		interface.	
Logs	See "Understanding logging."		
Example, GET URL	http://localhost:8080/literal/Stor	y.doc	
	Request object name:		
	LiteralRequestcom.quark.qxpsm.QRequestContext rc = new		
	com.quark.qxpsm.QRequestContext();		
	if(!this.DocumentSettings1.documentName.Text.Equals(""))		
Example object model	rc.documentName =		
Example, object model	this.DocumentSettings1.documentName.Text; rc.request = new		
	LiteralRequest(); //Create the service and call it with		
	QRequestContext object RequestService svc = new		
	RequestService(); com.quark.qxpsm.QContentData qc =		
	svc.processRequest(rc);		

pdf The ${\tt pdf}$ render type returns a PDF rendering of a project.

Namespace	PDF	PDF		
Parameters	outputstyle	stylename, document	Lets you specify an output style. To use a named output style, use the name of that output style. For example:http://localhos t:8080/pdf/ sample.qxp?outputstyle =stylename To use settings that have been captured with the Capture Settings in the QuarkXPress Export as PDF dialog box, use document. For example:http://localhos t:8080/pdf/ sample.qxp?outputstyle =document	
	title	String	Lets you specify the title of the PDF file.	
	subject	String	Lets you specify the subject of the PDF file.	
	author	String	Lets you specify the author of the PDF file.	
	keywords	String	Lets you specify keywords for the PDF file.	

I		Lote you engit-
includehyperlinks	1 0 true false yes no	Lets you specify whether to include hyperlinks in the PDF file.
exportlistsashyperlinks	1 0 true false yes no	Lets you specify whether to export lists as hyperlinks. To use this parameter, you must set includehyperlinks to true.
exportindexesashyperli nks	1 0 true false yes no	Lets you specify whether to export the index as hyperlinks. To use this parameter, you must set includehyperlinks to true.
exportlistsasbookmarks	1 0 true false yes no	Lets you specify whether to export lists as bookmarks. To use this parameter, you must set includehyperlinks to true.
mode	composite or separations	Lets you specify whether the PDF file is a composite or includes separations.
printcolors	cmyk, rgb, grayscale, cmykandspot, asis	Lets you specify the color space of the PDF file. This option is available only when mode is set to composite.
plates	inripseps	Lets you specify a separation method. This option is available only when mode is set to separations.
produceblankpages	1 0 true false yes no	Lets you specify whether to include blank pages. This option is available only when mode is set to composite.
useopi	1 0 true false yes no	Lets you specify whether to use OPI.
images	includeimages, omittiff,	Lets you specify

			rub oth on to to all discrept
		omittiffandeps	whether to include TIFF
			and EPS images from an
			OPI server.
	registration	off, centered, offcenter	Lets you include, omit,
			and configure
			registration marks.
	offset	0–30 (in points)	Lets you specify the
			offset of registration
			marks.
		pageitemsonly,	Lets you specify a bleed
	bleed	symmetric	type.
	offsetbleed	0–6 (in inches)	Lets you specify a bleed
			offset to use. This
			option is available only
			when bleed is set to
			symmetric.
	spreads	1 0 true false yes no	Lets you specify
			1 1
			whether to output
			spreads.
	lowresolution	1 0 true false yes	Lets you request a low-
	10 11 10 11	no	resolution (36 dpi) PDF.
	colorimagedownsample	9–2400	Lets you specify the
			resolution of color
			images.
	grayscaleimagedownsa mple	9–2400	Lets you specify the
			resolution of grayscale
			images.
	monochromeimagedow nsample	9–2400	Lets you specify the
			resolution of
			monochrome images.
			Lets you specify
	colorcompression	true false	whether medium-
			quality manual JPEG
			compression should be
			· ·
			applied to color images.
gray		true false	Lets you specify
			whether medium-
	grayscalecompression		quality manual JPEG
	grayscarecompression		compression should be
			applied to grayscale
			images.
		true false	Lets you specify
			whether ZIP
	monochromecompressi		compression should be
	on		applied to
			monochrome images.
	pdffile	String	Ŭ.
			Lets you specify the
			PDF name. This option
			is available only when

PDF to Folder is selected in QuarkXPreserver PDF preferences Lets you specify the PostScript file name. This option is availabe postseript for later Distilling is selected in QuarkXPreserver PDF preferences.	ess
Server PDF preference Lets you specify the PostScript file name. This option is availab psfile String only when PostScript for later Distilling is selected in QuarkXPre	C22
Lets you specify the PostScript file name. This option is availab only when PostScript for later Distilling is selected in QuarkXPro	, I
PostScript file name. This option is availab psfile String only when PostScript for later Distilling is selected in QuarkXPr	28.
psfile String This option is available only when PostScript for later Distilling is selected in QuarkXPro	
psfile String only when PostScript for later Distilling is selected in QuarkXPro	,
for later Distilling is selected in QuarkXPr	
selected in QuarkXPro	
_	es.
Lets you embed a	_
thumbnail bw color thumbnail in the PDI	7
file.	
mode composite separations Lets you specify the	
PDF file's color mode	
Lets you turn font	
download on or off.	
fontdownload yes no You cannot specify	
which fonts are	
downloaded.	
Lets you specify which	h
layers String layers should be	
included, as a comma	ì-
separated list.	
Lets you use PDF/X–1	a
verification pdfx1a pdfx3 or PDF/X–3	
verification.	
Lets you specify	
separate yes no whether to output ea	ch
page as a separate file	
Lets you specify	
produceblankplates yes no whether to include	
blank plates.	
When download is	
true, the browser	
always displays a dial	og
box that lets the end	
user save the returned	d l
file, even if the brows	er
can display it.When	
download 1 0 true false download is false, the	3
browser attempts to	
display the returned	
file. If the browser	
cannot display the fil	e,
it lets the end user sa	
the returned file. The	
default value is false.	
	\dashv
layoutstart 1 0 true false yes Lets you specify the	

	1	1	annals on a full a force
			number of the first layout to render when
			you render multiple
			T = = = = = = = = = = = = = = = = = = =
			layouts as separate PDF
			files. PDF files are saved
			at the location specified
			in QuarkXPress Server
			preferences
			(Administration >
		no	Preference > General >
			Server > Document
			Root Folder). The first
			layout in a project is
			layout 0. For
			example:http://localhos
			t:8080/pdf/multilayout.
			qxp?
			layoutstart=0&layouten
			d=3
			Lets you specify the
			number of the last
			layout to render when
			you render multiple
			layouts as separate PDF
			files. PDF files are saved
			at the location specified
			in QuarkXPress Server
			preferences
	layoutend	Integer	(Administration >
	*		Preference > General >
			Server > Document
			Root Folder). The first
			layout in a project is
			layout 0. For
			example:http://localhos
			t:8080/pdf/multilayout.
			qxp?
			layoutstart=0&layouten
			d=3
			Lets you specify
	updateimage	true false	whether to update
		· ·	imported pictures.
			Lets you specify
			whether to update the
	updateflow	true false	text flow version of a
	upuatenow		project to the current
			version.
			Lets you specify a single
Render modifier	page	Integer	page.
parameters		Ctuin or (many or)	
	pages	String (page range)	Lets you specify a range

Г			of pages.	
			Lets you specify a	
			spread. The first spread	
			is spread 1. In a facing-	
	spread	Integer	page document, spread	
			1 consists of the first	
			page.	
			Lets you specify a	
			layout by name or ID.	
	layout	String	The first layout is	
			Layout 1.	
		Boolean 1 0 true	Lets you specify that	
	spreads	false yes no	the output use spreads.	
Response	A PDF file.		1	
_	T1. '	HTTP Error #500QuarkX	Press Server Error	
1	This page range is	#147This alert displays is	f you try to render an	
	invalid	invalid page range.		
	No file produced. The	HTTP Error #500This ale	art displays if you to to	
	project requested			
Alerts	contains only blank	render a a project that co	ontains only blank	
Alerts	pages.	pages.		
	This Output Style does	This alert displays if you specify a nonexistent		
	not exist.	output style.		
	This Output Style	This alert displays if you specify an output style that is incompatible with this render type.		
	cannot be used with			
	this render type.			
- u	See "Understanding logging."			
	This URL renders "sample.qxp" as a PDF with a symmetric bleed:			
	http://localhost:8080/pdf/sample.qxp? bleed=symmetric&offsetbleed=2 This URL renders a PDF in which color images are downsampled to a			
TExample, GET URL —— I		· ·	-	
	-	d manual medium-quality	y JPEG compression is	
I I	applied: http://localhost:8080/pdf/sample.qxp?			
	colorimagedownsample=300&colorcompression=true			
	= :	-	: Create the QuarkXPress	
1	Server Request Context // and set the nescessary properties			
1	com.quark.qxpsm.QRequestContext requestCtx = new			
I I	com.quark.qxpsm.QRequestContext(); Boolean responseAsURL = false;			
I I	requestCtx.setDocumentName(docName); // STEP 2(SPECIFIC TO			
I I	REQUESTS): // Create the PDF renderer request // and embed it in the			
1	request context. PDFRenderRequest pdfreq = new PDFRenderRequest();			
1	pdfreq.setAuthor(request.getParameter("Author"));			
Example, object model	pdfreq.setTitle(request.getParameter("Title"));			
1 1				
	pdfreq.setLayout(request	.getParameter("Layout"))		
	pdfreq.setLayout(request pdfreq.setSpread(request	getParameter("Layout")) .getParameter("Spread"));		
	pdfreq.setLayout(request pdfreq.setSpread(request pdfreq.setPage(request.ge	getParameter("Layout")); .getParameter("Spread")); etParameter("mPage"));	;	
	pdfreq.setLayout(request pdfreq.setSpread(request pdfreq.setPage(request.ge pdfreq.setPages(request.ge	<pre>c.getParameter("Layout")) .getParameter("Spread")); etParameter("mPage")); getParameter("Pages")); if</pre>	;	
	pdfreq.setLayout(request pdfreq.setSpread(request pdfreq.setPage(request.ge pdfreq.setPages(request.ge !=null && strLowResolut	a.getParameter("Layout")); .getParameter("Spread")); etParameter("mPage")); getParameter("Pages")); if ction.equals("True"))	(strLowResolution	
	pdfreq.setLayout(request pdfreq.setSpread(request pdfreq.setPage(request.ge pdfreq.setPages(request.ge !=null && strLowResolut pdfreq.setLowResolution	a.getParameter("Layout")) a.getParameter("Spread")); etParameter("mPage")); getParameter("Pages")); if dion.equals("True")) a("true"); requestCtx.setRe	(strLowResolution equest(pdfreq); // STEP3:	
	pdfreq.setLayout(request pdfreq.setSpread(request pdfreq.setPage(request.g pdfreq.setPages(request.g !=null && strLowResolut pdfreq.setLowResolution Create the service and //	e.getParameter("Layout")) e.getParameter("Spread")); etParameter("mPage")); getParameter("Pages")); if cion.equals("True")) e("true"); requestCtx.setRe call the processRequest()	(strLowResolution equest(pdfreq); // STEP3:	

= service.processRequest(requestCtx); For more information about the object model, see the samples. There are three ways to generate PDF files with QuarkXPress Server. You can generate a PDF file in QuarkXPress Server and return it to the end user, generate the PDF in QuarkXPress server and save it to a folder on the server computer, or generate a PostScript file for later distilling and save it to a folder on the server computer. To choose one of these output methods in QuarkXPress Server, choose Administration > Preferences > Renderer > PDF) and then click DirectPDF, PDFtoFolder, or PS4D (PostScript for Later Distilling). If you choose either of the last two options, click Browse and navigate to the target folder, then choose an option from the Default Name drop-down menu. You can specify an output style and set additional local parameters of that output style. For example, if no bleed setting is specified in the output style named "mystylename", you can specify a bleed setting with a URL like the following:http://localhost:8080/pdf/sample.qxp? outputstyle=mystylename&bleed=symmetric You can override settings in an output style. For example, if an asymmetric bleed is specified in the output style named "mystylename," you could override it with the same URL. If you do not specify a PDF output style, the default PDF output style is used. The default PD output style is Screen - Low Quality/Low Notes Resolution. You can still obtain a high resolution PDF by specifying the output style. Output style names are case-sensitive and should be precise. The following will return a list of output styles from the server: http://<server><port>/getserverinfo <OUTPUTSTYLES> <OUTPUTSTYLE TYPE = "PDF">Default PDF Output Style</OUTPUTSTYLE> <OUTPUTSTYLE TYPE = "PDF">Press - High Quality/High Resolution</OUTPUTSTYLE> <OUTPUTSTYLE TYPE = "PDF">Print -Medium Quality/Medium Resolution</OUTPUTSTYLE> <OUTPUTSTYLE TYPE = "PDF">Screen - Medium Quality/Low Resolution</OUTPUTSTYLE> <OUTPUTSTYLE TYPE = "PDF">Screen - Low Quality/Low Resolution</OUTPUTSTYLE> < OUTPUTSTYLE TYPE = "PDF">PDF/X-3:2002</OUTPUTSTYLE> < OUTPUTSTYLE TYPE = "PDF">PDF/X-1a:2001</OUTPUTSTYLE> <OUTPUTSTYLE TYPE = "Print">Default Print Output Style</OUTPUTSTYLE> <OUTPUTSTYLE TYPE = "EPS">Default EPS Output Style</OUTPUTSTYLE> <OUTPUTSTYLE TYPE = "ePub">Default ePub Output Style</OUTPUTSTYLE> <OUTPUTSTYLE TYPE = "Kindle">Default Kindle Output Style</OUTPUTSTYLE> <OUTPUTSTYLE TYPE = "PDF">Default PDF For AVE</OUTPUTSTYLE> <OUTPUTSTYLE TYPE = "AVE">Default AVE Output Style</OUTPUTSTYLE> </OUTPUTSTYLES >

png

The png render type returns a PNG rendering of a page or spread.

Namespace	PNG		
Parameters	pngcompression	1 2 3 4	Lets you specify the compression of a PNG response. The valid

	1		1 1 1 1	
			values are: 1 (lowest	
			compression), 2	
			(medium compression),	
			3 (high compression),	
			and 4 (highest	
			compression). The	
			default value is 1.	
			Lets you specify	
			whether to generate a	
	transparentpng	true false	PNG file that uses	
			transparency.	
			Lets you specify	
	upadateimage	true false	whether to update	
		'	imported pictures.	
			Lets you specify	
			whether to update the	
	updateflow	true false	text flow version of a	
	updatenow	true raise	project to the current	
			version.	
	boxes	String	Lets you request	
			multiple boxes.	
	page	Integer	Lets you specify a single	
	1 .0.		page.	
			Lets you specify a	
		Float .1 to 6.92 for	scaling percentage. The	
	scale	Windows .1 to 8 on Mac OS	valid values are from .1	
	Scarc		(10%) to 8 (800%) on	
			Mac OS or 6.92 (692%)	
			on Windows.	
Render modifier	hov	Ctring	Lets you request a	
parameters	box	String	single box.	
		Integer	Lets you specify a	
			spread. The first spread	
			is spread 1. In a facing-	
	spread		page document, spread	
			1 consists of the first	
			page.	
			Lets you specify a	
			layout by name or ID.	
	layout	String	The first layout is	
			Layout 1.	
Response	A PNG file.		Layout 1.	
Logs	See "Understanding logging."			
Example, GET URL	0 0,	· ·	ession=1	
	http://localhost:8080/png/sample.qxp?pngcompression=1			
	Request object name: PNGRenderRequest // STEP1: Create the			
	QuarkXPress Server Request // Context and set the nescessary properties			
Example, object model	com.quark.qxpsm.QRequestContext rc = new			
1 , , ,	com.quark.qxpsm.QRequestContext(); Boolean responseAsURL = false;			
	rc.setDocumentName(docName); // STEP 2(SPECIFIC TO			
	REQUESTS):Create the PNG renderer // request and embed it in the			

request context. PNGRenderRequest pngreq = new PNGRenderRequest();
pngreq.setPNGCompression(request.getParameter("PNGCompression"));
pngreq.setLayout(request.getParameter("Layout"));
pngreq.setSpread(request.getParameter("Spread"));
pngreq.setPage(request.getParameter("mPage")); rc.setRequest(pngreq); //
STEP3: Create the service and // call the processRequest() API
RequestService service = new RequestServiceStub();
com.quark.qxpsm.QContentData data = service.processRequest(rc);

postscript

The ${\tt postscript}$ render type returns a PostScript rendering of a project.

Namespace
Parameters

			Default:	
			prntbleed=sym,yes,0	
			Lets you specify an	
			output style. To use a	
			named output style, use	
			the name of that	
			output style. For	
			example:http://localhos	
			t:8080/ postscript/	
			sample.qxp?outputstyle	
			=stylename To use	
	outputstyle	stylename, document	settings that have been	
			captured with the	
			Capture Settings in the	
			QuarkXPress Print	
			dialog box, use	
			document. For	
			example:http://localhos	
			t:8080/ postscript/	
			sample.qxp?outputstyle	
			=document	
			Lets you specify	
	updateimage	true false	whether to update	
			imported pictures.	
			Lets you specify	
	updateflow	true false	whether to update the	
			text flow version of a	
			project to the current	
			version.	
	page	Integer	Lets you specify a single	
			page.	
	pages	String (page range)	Lets you specify a range	
			of pages.	
			Lets you specify a	
			spread. The first spread	
Render modifier	spread	Integer	is spread 1. In a facing-	
parameters			page document, spread	
			1 consists of the first	
			page.	
			Lets you specify a	
	layout	String	layout by name or ID.	
	,		The first layout is	
B	A D 10 A 10 C		Layout 1.	
Response	A PostScript file.	HTTD Error #500 Organi-1-3	VDroce Corron Ennou #147	
	This page range is	HTTP Error #500 QuarkXPress Server Error #147		
	invalid.	This alert displays if you try to render an invalid		
Alerts	No Classes I mi	page range.		
	No file produced. The	HTTP Error #500 This alert displays if you try to		
	document requested	render a a project that contains only blank		
	contains only blank	pages.		

	pages.		
	PostScript printer	HTTP Error #500 This alert displays if the	
	mapped to file not	PostScript printer or driver is not set to Print to	
	found	File.	
	This Output Style does	This alert displays if you specify a nonexistent	
	not exist.	output style.	
	This Output Style	This alert displays if you specify an output style	
	cannot be used with	that is incompatible with this render type.	
	this render type.	that is incompatible with this fender type.	
Logs	See "Understanding logg	ging."	
Example, GET URL	http://localhost:8080/postscript/Sample.qxp		
	Request object name: Po	ostScriptRenderRequest // STEP1: Create the	
	QuarkXPress Server Requ	uest // Context and set the nescessary properties	
	com.quark.qxpsm.QReq	uestContext requestCtx = new	
	com.quark.qxpsm.QRequestContext(); Boolean responseAsURL = false;		
	requestCtx.setDocumentName(docName); // STEP 2(SPECIFIC TO		
	REQUESTS): // Create the Post Script renderer // request and embed it in		
	the request context. PostScriptRenderRequest pscreq = new		
Example, object model			
	pscreq.setPrintBleed(request.getParameter("PrintBleed"));		
	pscreq.setPrintPPD(request.getParameter("PrintPPD"));		
	pscreq.setPages(request.	getParameter("Pages"));	
	requestCtx.setRequest(p	screq); // STEP3: Create the service and call the //	
	processRequest() API Rec	questService service = new RequestServiceStub();	
	com.quark.qxpsm.QContentData data =		
	service.processRequest(requestCtx);		
	To create a PostScript file	e, you must have a PostScript driver on the server	
	computer. You can specif	y an output style and set additional local	
	parameters of that outpu	ıt style. For example, if no bleed setting is	
	specified in the output style named "mystylename", you can specify a		
	bleed setting with a URL like the		
Notes	following:http://localhost:8080/eps/sample.qxp?		
	outputstyle=mystylenan	ne&bleed=symmetric You can override settings in	
	an output style. For example, if an asymmetric bleed is specified in the		
	output style named "my	stylename," you could override it with the same	
	URL.If you do not specify a PostScript-compatible output style, the default		
	PostScript-compatible or	ıtput style is used.	

qcddoc

The ${\tt qcddoc}$ render type returns a QuarkCopyDesk article.

Namespace	qcddoc	qcddoc		
Parameters	article	String	Lets you specify which article in a project to render. For example:http://localhost:8080/qcddoc/abc.qxp?article=article1	
	component	String	Lets you specify which	

	1	1	
			component in an article to render. For example:http://localhost:8080/copydesk/
			abc.qcd?component=co mp1
			Lets you render an
			article in lightweight or
			full-featured format.
	format	0 0 - 1	For
		fullfeatured	example:http://localhos t:8080/qcddoc/
			abc.qxp?article=article1
			& format=fullfeatured
			Lets you save a copy of an article that was
			created in
			QuarkCopyDesk as a
			template. The default
			value is true. For
			example:http://QXPSer
			ver8:8080/saveas/
	saveastemplate	true false	qcddoc/article.qcd?save astemplate=trueYou can
			also use this parameter
			to save a copy of a
			template as an article.
			For
			example:http://QXPSer
			ver8:8080/saveas/
			qcddoc/template.qct?sa
			veastemplate=false
			Lets you include a page picture when you
			export an article from a
			QuarkXPress layout.
			Valid options
			are:picformat
			(embedded or
			separate)quality
	includepagepicture	true false 1 0	(blackandwhite or
			color)picdpi (72, 144,
			or 200)spreadrange (all or first)For
			example:http://localhos
			t:8080/saveas/qcddoc/
			4.qxp?includepagepictu
			re=1&
			quality=blackandwhite
			&picdpi=144&

			spreadrange=firsthttp://	
			localhost:8080/saveas/q	
			cddoc/	
			PagePicture.qxp?includ	
			epagepicture=true	
			Lets you modify the	
Render modifier	modify	XML	article with XML. For	
parameters	inodity	AWIL	more information, see	
			"XML modify."	
Response	A QuarkCopyDesk article	e.		
	There is no box with	This alert displays if the box corresoponding to a		
	the specified identifier.	referenced component does not exist.		
	The number of			
	characters in the article	This alert displays if an article name is longer		
Alerts	name can't be greater	than 32 characters.		
Alerts	than max limit.			
		This alert displays if you create or change the		
	The article/component	name of an article or component so that it is the		
	name is not unique.	same as the name of an	existing article or	
		component.		
Logs	See "Understanding logg	ging."		
Example, GET URL	http://localhost:8080/qcddoc/copydesk/sample.qcd			
Example, object model	Request object name: CopyDeskDocRequest			

qxpdoc

The <code>qxpdoc</code> render type returns a QuarkXPress project.

Namespace	qxpdoc		
			Indicates the
			QuarkXPress version
			format to use. For
	qxpdocver	8 9	example:http://localhos
			t:8080/qxpdoc/
			construct/project1.qxp?
			qxpdocver=8
			Lets you specify
		true false	whether to return
	upadateimage		modified pictures in the
Parameters			response or not. If set
			to false, modified
			pictures are not
			returned. If set to true,
			modified pictures are
			returned. The default
			value is true.
			Lets you save a copy of
	carroactomplato	truo folso	a project as a template.
	saveastemplate	true false	The default value is
			true. For

		1		
			example:http://localhos	
			t:8080/saveas/	
			qxpdoc/project.qxp?sav	
			eastemplate=trueYou	
			can also use this	
			parameter to save a	
			copy of a template as a	
			project. For	
			example:http://localhos	
			t:8080/saveas/	
			qxpdoc/template.qpt?sa	
			1 1	
			veastemplate=false	
D 1 110			Lets you specify a	
Render modifier	layout	String	layout by name or ID.	
parameters	1 *		The first layout is	
			Layout 1.	
Response	A QuarkXPress project.			
		HTTP Error #500 This al	• ,	
	QuarkXPress document	QXD Return is checked	·	
	return is disabled.	Server administration in	terface (Administration	
		> Preferences > General	> Server).	
Alerts	The renderer for this	HTTP Error #406 This alert displays if you submit		
	image type has no way			
Alerts	a qxpdoc render request with the			
	objects.	box, or spread paramete	r.	
	Cannot save a	HTTP Error #500 This al	ert displays if you	
	QuarkXPress Project	attempt to save a Quark	XPress 6.x project to an	
	down to an earlier	earlier version of Quark	* /	
	version.	qxpdocver parameter.		
Logs	See "Understanding logg	1		
Example, GET URL	http://localhost:8080/qx	=		
1 '		ıarkXPressRenderRequest	// STEP1: Create the	
	1 * '	uest // Context and set th		
	com.quark.qxpsm.QRequestContext requestCtx = new			
	com.quark.qxpsm.QRequestContext(); Boolean responseAsURL = false;			
			-	
	requestCtx.setDocumentName(docName); // STEP 2(SPECIFIC TO			
	REQUESTS):Create the QuarkXPress // renderer request and embed it in			
Example, object model	the request context. QuarkXPressRenderRequest qxpreq = new			
	QuarkXPressRenderRequest();			
	qxpreq.setDocumentVersion(request.getParameter("XpressDocVersion"));			
	<pre>qxpreq.setLayout(request.getParameter("Layout")); requestCtx.setRequest(qxpreq); // STEP3: Create the service and call the</pre>			
		questService service = new	v kequestservicestub();	
	com.quark.qxpsm.QCon			
1	service.processRequest(re	equestCtx);		

screenpdf

The screenpdf render type returns a low-resolution PDF rendering of a project. This render type overrides the PDF Workflow setting in the QuarkXPress Server

USING QUARKXPRESS SERVER

 $administration\ interface\ (Administration > Preferences > Renderer > PDF)\ and$ always sends the PDF file to the browser.

Namespace	Screenpdf		
Namespace	Screenpdf		Lets you specify an output style. To use a named output style, use the name of that output style. For example:http://localhost:8080/screenpdf/sample.qxp?outputstyle=stylename To use
	outputstyle	stylename	settings that have been captured with the Capture Settings in the QuarkXPress Print dialog box, use document. For example:http://localhost:8080/screenpdf/sample.qxp?outputstyle=document
	title	String	Lets you specify the title of the PDF file.
Parameters	subject	String	Lets you specify the subject of the PDF file.
1 diameters	author	String	Lets you specify the author of the PDF file.
	keywords	String	Lets you specify keywords of the PDF file.
	includehyperlinks	1 0 true false yes no	Lets you specify whether to include hyperlinks in the PDF file.
	exportlistsashyperlinks	1 0 true false yes no	Lets you specify whether to export lists as hyperlinks. To use this parameter, you must set includehyperlinks to true.
	exportindexesashyperli nks	1 0 true false yes no	Lets you specify whether to export the index as hyperlinks. To use this parameter, you must set includehyperlinks to true.

exportlistsasbookmarks	1 0 true false yes no	Lets you specify whether to export lists as bookmarks. To use this parameter, you must set includehyperlinks to true. Lets you specify
mode	composite or separations	whether the PDF file is a composite or includes separations.
printcolors	cmyk, rgb, grayscale, cmykandspot, asis	Lets you specify the color space of the PDF file. This option is available only when mode is set to composite.
plates	inripseps	Lets you specify a separation method. This option is available only when mode is set to separations.
produceblankpages	1 0 true false yes no	Lets you specify whether to include blank pages. This option is available only when mode is set to composite.
useopi	1 0 true false yes no	Lets you specify whether to use OPI.
images	includeimages, omittiff, omittiffandeps	Lets you specify whether to include TIFF and EPS images from an OPI server.
registration	off, centered, offcenter	Lets you include, omit, and configure registration marks.
offset	0–30 (in points)	Lets you specify the offset of registration marks.
bleed	pageitemsonly, symmetric	Lets you specify a bleed type.
offsetbleed	0–6 (in inches)	Lets you specify a bleed offset to use. This option is available only when bleed is set to symmetric.
spreads	1 0 true false yes no	Lets you specify whether to output
		spreads.

lowresolution		
	1 0 true false yes	Lets you request a low-
	no	resolution (36 dpi) PDF.
		Lets you specify the
colorimagedownsample	9–2400	resolution of color
		images.
1.1		Lets you specify the
grayscaleimagedownsa	9–2400	resolution of grayscale
mple		images.
m an a abromaim a gadayı		Lets you specify the
monochromeimagedow	9–2400	resolution of
nsample		monochrome images.
		Lets you specify
		whether medium-
colorcompression	true false	quality manual JPEG
		compression should be
		applied to color images.
		Lets you specify
		whether medium-
grayscalecompression	true false	quality manual JPEG
grayscalecomplession	itue iaise	compression should be
		applied to grayscale
		images.
		Lets you specify
monochromecompressi		whether ZIP
_	true false	compression should be
on		applied to
		monochrome images.
		Lets you specify the
		PDF name. This option
pdffile	String	is available only when
parme		PDF to Folder is
		selected in QuarkXPress
		Server PDF preferences.
		Lets you specify the
		PostScript file name.
		This option is available
psfile	String	only when PostScript
		for later Distilling is
		selected in QuarkXPress
		Server PDF preferences.
		Lets you embed a
thumbnail	bw color	thumbnail in the PDF
		file.
mode	composite separations	Lets you specify the
	r · · · · · · · · · · · · · · · · · · ·	PDF file's color mode.
		Lets you turn font
fontdownload	yes no	download on or off.
		You cannot specify
1	l	

			which fonts are
			downloaded.
			Lets you specify which
	1		layers should be
	layers	String	included, as a comma-
			separated list.
			Lets you specify the
	transparencyres	Integer value from 36	resolution for flattened
		to 3600	content.
			Lets you use PDF/X-1a
	verification	pdfx1a pdfx3	or PDF/X-3
			verification.
			Lets you specify
	separate	yes no	whether to output each
			page as a separate file.
			Lets you specify
	produceblankplates	yes no	whether to include
			blank plates.
			Lets you specify
	updateimage	true false	whether to update
		'	imported pictures.
			Lets you specify
	updateflow		whether to update the
		true false	text flow version of a
			project to the current
			version.
		T .	Lets you specify a single
	page	Integer	page.
		C(()	Lets you specify a range
	pages	String (page range)	of pages.
			Lets you specify a
		Integer	spread. The first spread
	amman d		is spread 1. In a facing-
Render modifier	spread		page document, spread
parameters			1 consists of the first
			page.
			Lets you specify a
	layout	String	layout by name or ID.
	layout	String	The first layout is
			Layout 1.
	spreads	Boolean (1 0 true	Lets you specify that
	spreads	false yes no)	the output use spreads.
Response	A screen-resolution PDF	file	
	This page range is	HTTP Error #500Quark	KPress Server Error
	invalid.	#147This alert displays	if you try to render an
		invalid page range.	
Alerts	No file produced. The	HTTP Error #500This alo	ert displays if you try to
	document requested	ested render a a project that contains only	
		TICITUCE A A DIVICCE HIAL C	OIILUIIIS OIII Y DIUIIN
I	contains only blank	pages.	,

Logs	See "Understanding logging."
Example, GET URL	http://localhost:8080/screenpdf/sample.qxp?
Example, GET OKL	colorimagedownsample=72&colorcompression=0
	Request object name: ScreenPDFRenderRequest // STEP1: Create the
	QuarkXPress Server Request Context // and set the nescessary properties
	com.quark.qxpsm.QRequestContext requestCtx = new
	com.quark.qxpsm.QRequestContext(); String docName =
	request.getParameter("documentName");
	requestCtx.setDocumentName(docName); // STEP 2(SPECIFIC TO
	REQUESTS): // Create the QuarkXPress renderer // request and embed it in
Example, object model	the request context. ScreenPDFRenderRequest screenpdfRequest = new
	ScreenPDFRenderRequest(); screenpdfRequest.setColorImageDownSample(
	request.getParameter("ColorImageDownSample"));
	screenpdfRequest.setCompression(request.getParameter("Compression"));
	requestCtx.setRequest(screenpdfRequest); // STEP3: Create the service
	and // call the processRequest() API RequestService service = new
	RequestServiceStub(); com.quark.qxpsm.QContentData data =
	service.processRequest(requestCtx);

html5

To Export as responsive HTML5 publication(Multi Device Output):

- Create/Duplicate different layouts in a QXP project where each layout corresponds to a digital device/orientation.
- Optionally create an HTML5 output style.
- Optionally specify a name for the section to be exported as a Table of Contents.
- While exporting as HTML5 Publication, select layouts to be included in the publication and select the HTML5 output style to be applied.

To Create Multiple Layouts in a QXP Project, one for each device/orientation please refer to the "HTML5 Publication output styles" section in 'A Guide to QuarkXPress 2017', found here:

User-Guide-EN.pdf"

The html5 render type returns a .zip file containing HTML5 output.

Modifier XML Markup:

Use the Markup for the respective layout type (iPad(V), iPhone5 (V), iPhone6 (V), Android (V)) as shownin the following figure:

```
<PROJECT>
       <LAYOUT>
             <ID NAME="iPad (V)"/>
             <PAGESEQUENCÉ MASTERREFERENCE="G-TOC">
              </PAGESEQUENCE>
              <PAGESEQUENCE MASTERREFERENCE="A-Introduction">
              </PAGESEQUENCE>
      </LAYOUT>
       <LAYOUT>
             </PAGESEQUENCE>
              <PAGESEQUENCE MASTERREFERENCE="A-Introduction">
              </PAGESEQUENCE>
       </LAYOUT>
             <LAYOUT>
<ID NAME="iPhone6 (V)"/>
              <PAGESEQUENCE MASTERREFERENCE="G-TOC">
              </PAGESEQUENCE>
              <PAGESEQUENCE MASTERREFERENCE="A-Introduction">
             </PAGESEQUENCE>
       </LAYOUT>
             <LAYOUT>
<ID NAME="Android (V)"/>
              <PAGESEQUENCE MASTERREFERENCE="G-TOC">
              </PAGESEQUENCE>
              <PAGESEQUENCE MASTERREFERENCE="A-Introduction">
             </PAGESEQUENCE>
       </LAYOUT>
</PROJECT>
```

HTML5 Modifier XML Markup

The following table pertains to HTML5 publications:

Namespace	html5	
Parameters	html	

Render modifier parameters	layout	

	\prod
page	
page	
	$\ $
	$\ $
	$\ $
	$\ $
	П

		_	_
	pages		

Response	A .zip file containing an HTML5 article.	
Alerts	The renderer for this image type has no way of rendering the desired objects.	
	The remarks for this image type has no may be remained the desired objects.	

Cannot open this document type. Please select a QuarkXPress document or template.

Logs	See "Understanding logging."
URL Request to export as HTML5 Multi Device Output	http:// <qxps server="">:<port>/html5/<qxp template="">.qxp?modify=file:<modifier file="">&layouts=iPad (V),iPad (H),iPhone5 (V),iPhone5 (H)</modifier></qxp></port></qxps>
Example, object model	Request object name: html5RenderRequest

→ If you want to use a custom HTML5 output style, then it must be specified in the URL request: :cport>/html5/cqxp">html5/cqxp <u>Template>?modify=file:<Modifier File>&layouts=iPad (V),iPad (H),iPhone5</u> (V),iPhone5 (H)&outputstyle=<MyHTML5Style>

Understanding render modifiers

Render modifiers let you control which parts of a project are rendered and set the scale of the returned renderings. The topics covered here include the following:

Property	Description		
box	The box render modifier lets you render a single		
DOX	box.		
boxes	The boxes render modifier lets you render		
DOXES	multiple boxes.		
	The layer render modifier lets you show and hide		
layer	layers prior to rendering. This render modifier		
layer	also lets you add and remove layers from a		
	project on the server.		
layout	The layout render modifier lets you render a		
layout	particular layout.		
movenages	The movepages render modifier lets you move		
movepages	pages prior to rendering.		
nago	The page render modifier lets you render a single		
page	page.		
nages	The pages render modifier lets you render		
pages	multiple pages.		
scale	The scale render modifier lets you specify the		
scare	scale at which content is rendered.		
spread	The spread render modifier lets you render a		
Spicau	single spread.		
spreads	The spreads render modifier lets you render		
spicaus	multiple spreads.		

Additional render-type-specific parameters are listed on each render type's page.

- → In the QuarkXPress Server Manager API, render modifiers are properties of render request classes.
- Render modifier names are not case-sensitive.

annotateerrors

The annotateerrors render modifier lets you include descriptions of rendering errors as notes in the layout itself. In rendered QuarkXPress files, errors are displayed as notes. In rendered PDFs, errors are displayed as comments. In XML output, errors are displayed as notes XML markup.

			Includes descriptions of
Parameters	annotateerrors	String	rendering errors as
			notes in the layout.
Compatible with	pdf, qxpdoc, xml, postscript		
Logs	See "Understanding logging."		
Example GET URL	http://localhost:8080/png/sample.qxp?box=annotateerrors		
Notes	Descriptions of rendering errors are formatted with the default character		
INOTES	style sheet.		

appenderrors

The appenderrors render modifier lets you include descriptions of rendering errors after the last page in the layout. Descriptions of rendering errors are formatted in 10-point magenta Arial.

Parameters	appenderrors	String	Includes descriptions of rendering errors after the last page in the layout.
Compatible with	pdf, qxpdoc, xml, postscript		
Logs	See "Understanding logging."		
Example GET URL	http://localhost:8080/png/sample.qxp?box=appenderrors		
Notes	Descriptions of rendering errors are formatted in 10-point magenta Arial.		

box

The box render modifier lets you render a single box.

	box	String	Lets you specify which
			box to render.
Parameters			Lets you specify
T drameters		String	whether to show the
	overlap	String	area overlapped by the
			specified box.
Compatible with	jpeg, png, raw		
	There is no box with	HTTP Error #500 This alert displays if you	
	the specified identifier.	request a box that does not exist.	
	Cannot render box. The	HTTP Error #500 This alert displays if you	
	box must be within the		* ′ ′ ′
Alerts	page boundaries.	request a box that is outside the page boundary	
	The renderer for this image type has no way of rendering the desired		

	objects.		
Logs	See "Understanding logging."		
Example GET URL	http://localhost:8080/png/sample.qxp?box=pictbox		
	To render a box in a particular layout, use a URL like the		
Notes	following:http://localhost:8080/png/sample.qxp?		
Notes	layout=2&page=3&box=textboxWhen you render using the box		
	parameter, the box ID has a higher priority than the box name.		

boxes

The boxes render modifier lets you render multiple boxes.

	boxes	String	Lets you specify which
			boxes to render.
			Lets you specify
Parameters		Ctuin ~	whether to show the
	overlap	String	area overlapped by the
			specified boxes.
Compatible with	jpeg, png, raw		
	There is no box with	HTTP Error #500 This alert displays if you	
	the specified identifier.	request a box that does not exist.	
Alerts	Cannot render box. The box must be within the page boundaries. The renderer for this image type has no way of rendering the desired objects.	HTTP Error #500 This alert displays if you request a box that is outside the page boundar. HTTP Error #406 This alert displays if you try use the boxes parameter with the eps. pdf. or	
Logs	See "Understanding logging."		
Example GET URL	http://server:port/jpeg/doc.qxp?boxes=box1,box2		
	To render boxes in a particular layout, use a URL like the		
Notes	following:http://localhost:8080/png/sample.qxp?		
110163	layout=2&page=3&box=textboxWhen you render using the box		
	parameter, the box ID has a higher priority than the box name.		

compositionzone

The ${\tt composition}{\tt zone}$ parameter lets you return an XML representation of one or more Composition Zones items.

			Lets you specify which
	compositionzone		Composition Zones
			item to return. For
		String	example:http://localhos
Devenue			t:8080/xml/sample.qxp
Parameters			?
			compositionzone=czbo
			X
		Ctuin a	Lets you specify which
	compositionzones	String	Composition Zones

			items to return. For
			example:http://localhos
			t:8080/xml/sample.qxp
			?
			compoxitionzones=czb
			ox1, czbox2
Compatible with	xml	•	•
Alerts	Invalid box given in	Error #10401 This alert displays if you request	
	Box Param.	box that is not a Composition Zones item.	
Logs	See "Understanding log	ging."	

layer

The layer render modifier lets you show and hide layers prior to rendering. This render modifier also lets you add and remove layers from a project on the server.

			Lets you specify which
		String	layer to render. You can
	layer		specify multiple layer
			names in one request.
			Lets you add a new
	addlayer	String	layer. You can add one
			layer per request.
			Lets you delete a layer
	deletelayer	String	and the items on that
	deletelayer	Stillig	layer. You can delete
			one layer per request.
			Lets you render every
	alllayers	Boolean (1 0 true	layer in the project,
	ailiayeis	false yes no)	including hidden and
			suppressed layers.
	layerattribute		Lets you modify the
Parameters		String	attributes of a layer.
			You can modify one
			layer per request.
	name	String	Lets you specify a new
			name for a layer. You
			must use this parameter
			in conjunction with the
			layerattribute
			parameter.
			Lets you make a layer
			visible or invisible. You
			can use this parameter
		Boolean (1 0 true	in conjunction with the
	visible	false yes no)	addlayer and
			layerattribute
			parameters. This
			parameter overrides

			QuarkXPress layer
			visibility preferences.
			Lets you suppress or
			allow the output of a
			layer. You can use this
			parameter in
			conjunction with the
	suppressoutput	Boolean (1 0 true	addlayer and
	Suppressourput	false yes no)	layerattribute
			parameters. This
			parameter overrides
			QuarkXPress suppress
			output preferences.
			Lets you lock or unlock
			I -
			a layer. You can use this
			parameter in conjunction with the
		De elege (1 0 torre	l '
	locked	Boolean (1 0 true	addlayer and
		false yes no)	layerattribute
			parameters. This
			parameter overrides
			QuarkXPress layer
			locking preferences.
			Lets you set or change a
			layer's Keep Runaround
			setting. You can use
			this parameter in
	, ,	Boolean (1 0 true	conjunction with the
	keeprunaround	false yes no)	addlayer and
			layerattribute
			parameters. This
			parameter overrides
			QuarkXPress Keep
			Runaround preferences.
Compatible with		t, qcddoc, qxpdoc, raw, po	
	This layer does not		ert displays if you specify
	exist. Please verify the	an invalid layer name with the layer,	
	layer name.	layerattribute, or deletela	, .
	Consider a 1-		ert displays if you do not
	Specify a layer name.	specify a layer name with the layer,	
		layerattribute, addlayer, or deletelayer parameter. HTTP Error #500 This alert displays if you try to	
Alama	A 1 9th d		
Alerts			=
	name already exists.	name of a layer to a name is already used project.	
	Cannot change the	project.	
	name of the default	HTTP Error #500 This ale	
	layer.	change the name of the default layer.	
	Cannot delete the	HTTP Error #500 This ale	ert displays if you try to
	default layer.	delete the default layer.	1 /- /
	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

	Invalid parameter value.	HTTP Error #500 This alert displays if you do not specify additional attributes or specify attributes with invalid values in an addlayer or layerattribute request.	
	This layer has been locked and cannot be modified.	HTTP Error #500 This alert displays if you try to add or modify an item on a locked layer.	
Logs	See "Understanding logs	ging."	
Example GET URL	To render a single layer, use a URL like the following:http://localhost:8080/doc.qxp?layer=layer1 To add a layer, use a URL like the following:http://localhost:8080/qxpdoc/doc.qxp?addlayer= NewLayer&visible=yes&suppressoutput=yes&locked=no To delete a layer, use a URL like the following: http://localhost:8080/qxpdoc/doc.qxp?deletelayer=Layer1 To render all layers in a project, use a URL like the following: http://localhost:8080/qxpdoc/doc.qxp?alllayers=true To set layer attributes, use a URL like the following:http://localhost:8080/qxpdoc/doc.qxp?layerattribute=		
Example, object model	Layer1&name=Layer2&visible=true&keeprunaround=true To add a new layer to a project, use code like the following:Layer layer = new Layer(); layer.name = "New Layer"; layer.operation = "CREATE"; RGBColor rgbcolor = new RGBColor(); layer.RGBColor = rgbcolor; layout.layer = new Layer[]{layer};To edit the properties of an existing layer, use the following object hierarchy:ModifierRequest < Project < Layout < LayerTo delete a layer, set its operation attribute to "DELETE".		
Notes	You cannot add, modify, or delete multiple layers in a single request. You cannot print layers whose visible and suppressoutput properties are set to false. You can render a hidden or suppressed layer by referencing it with the layer parameter. Suppressed layers are rendered for the jpeg, png, and qxpdoc render types, but not for the pdf, postscript, and eps render types. You can use the deconstruct and getdocinfo request handlers to view information about the layers in a project. When you add a layer using addlayer, any unspecified attributes use the settings in the QuarkXPress Server layer preferences (Administration > Preferences > Renderer > Layers). If the visible property is set to false, the suppressoutput property is automatically set to true.		

layout

The layout render modifier lets you render a specific layout.

			Lets you specify which
Parameters	layout		layout to render. The
			first layout is layout 1.
Compatible with	eps, jpeg, png, postscript, raw, pdf, screenpdf		
Alerts	The requested layout	HTTP Error #500This alert displays if you supply	
	does not exist.	an invalid layout value.	
Logs	See "Understanding logging."		
Example GET URL	To render a layout by its layer ID, use a URL like the following:http://localhost:8080/png/sample.qxp?layout=2 To render a		

layout by its name, use a URL like the
following:http://localhost:8080/png/sample.qxp?layout=Layout 2

movepages

The movepages render modifier lets you move pages prior to rendering.

			Lets you specify which
			pages to move. You can
			use a single page
			number (for example,
	movepages	String	2) or a range of pages
			with the starting and
			ending page numbers
			separated by a hyphen
			(for example, 2–5).
Parameters			Lets you specify the
			page after which the
			page or pages should be
			moved. To move pages
	. (1	Ct of a se	to the beginning of a
	afterpage	String	layout, use
			afterpage=start. To
			move pages to the end
			of a layout, use
			afterpage=end.
Compatible with	eps, jpeg, png, postscript	t, qcddoc, qxpdoc, raw, p	df, screenpdf, xml
	This page does not	QuarkXPress Server Error #61	
	exist.		
	Invalid page range.	QuarkXPress Server Error #62	
	The specified page		
Alerts	range cannot be moved	QuarkXPress Server Error #51	
Aleits	there.		
	This page range is	Overally Duran Courses Francis #146	
	invalid.	QuarkXPress Server Error #146	
	Invalid parameter	QuarkXPress Server Erro	r #10108
	value.	QuarkArress Server Erro	Ι #10100
Logs	See "Understanding logg		
	To move pages 2–3 to af	ter page 5, use a URL like	the
Example GET URL	following:http://localhost:8080/abc.qxp?movepages=2–3&afterpage=5 To		
Lample GL1 OKL	move page 7 to the beginning of a layout, use a URL like the		
	following:http://localhost:8080/abc.qxp?movepages=7&afterpage= start		
	To move pages before rendering a layout, use code like the following://		
	STEP1: Create the QuarkXPress Server Request Context // and set the		
	nescessary properties com.quark.qxpsm.QRequestContext requestCtx =		
Example, object model	new com.quark.qxpsm.QRequestContext(); Boolean responseAsURL =		
	false; requestCtx.setDocumentName(docName); // STEP 2(SPECIFIC TO		
	REQUESTS):Create the PDF // renderer request and embed it in the request		
	context. the request context. PDFRenderRequest pdfreq = new		
	PDFRenderRequest(); pdfreq.setMovePages("2-4");		

	pdfreq.setAfterPage("7"); requestCtx.setRequest(pdfreq); // STEP3: Create	
	the service and call the // processRequest() API RequestService service =	
	new RequestServiceStub(); com.quark.qxpsm.QContentData data =	
	service.processRequest(requestCtx);	
	The movepages operation executes only after all other modifications are	
Notes	complete. For example, if you use movepages in a modify request, the	
	pages are moved only after the modify request is complete.	

page

The page render modifier lets you render a single page.

Parameters	page	Integer	Lets you specify which		
	1 0	0	page to render.		
Compatible with	eps, jpeg, png, postscript	, qcddoc, raw, pdf, screen	, qcddoc, raw, pdf, screenpdf		
	The requested page	HTTP Error #500 This alert displays if you			
	does not exist.	attempt to render a page that does not exist.			
Alerts	The renderer for this				
Alerts	image type has no way	HTTP Error #406 This alo	ert displays if you use a		
	of rendering the desired	page parameter with the	qxpdoc render type.		
	objects.				
Logs	See "Understanding logging."				
Example GET URL	http://localhost:8080/png/sample.qxp?page=2				
	To add a new page to an	existing spread in a proje	ect, use code like the		
	following:Spread spread = new Spread(); Page page = new Page(); page.UID				
Evample object model	= "5"; page.operation = "CREATE"; spread.page = new Page[]{page}; To edit				
Example, object model	the properties of an existing page, use the following object				
	hierarchy:ModifierRequest < Project < Layout < Spread < PageTo delete a				
	page, set its operation attribute to "DELETE".				
Notes	To render a page in a particular layout, use a URL like the				
Notes following:http://localhost:8080/png/sample.qxp?layout=2&page=3		layout=2&page=3			

pages

The pages render modifier lets you render multiple pages. The pdf and postscript namespaces support this parameter.

Parameters	pages	String (page range)	Lets you specify which pages to render.	
Compatible with	eps, jpeg, png, postscript, raw, pdf, screenpdf			
		HTTP Error #500 Quark	KPress Server Error #147	
	This page range is	This alert displays if you try to render a page range that exceeds the number of pages in the		
	invalid.			
Alerts		project.		
Aicits	The renderer for this	HTTP Error #406 This alert displays if you use the pages parameter with the jpeg, eps, png, or		
	image type has no way			
	of rendering the desired	1 0 1	if the jpeg, eps, plig, of	
	objects.	qxpdoc render type.		
Logs	See "Understanding logging."			
Example, GET URL	http://localhost:8080/pdf/sample.qxp?pages=2-4			

Notes	To render pages in a particular layout, use a URL like the		
Notes	following:http://localhost:8080/pdf/sample.qxp?layout=2&pages=2,3		

scale

The ${\tt scale}$ render modifier lets you specify the scale at which content is rendered.

			Lets you specify a	
			scaling percentage. The	
Parameters		Float	valid values are from .1	
Parameters	scale	rivat	(10%) to 8 (800%) on	
			Mac OS or 6.92 (692%)	
			on Windows.	
Compatible with	eps, jpeg, png, raw			
		HTTP Error #500 This alert displays if an inva		
Alerts	Invalid scale parameter.	scale value is provided. What to do: Enter a valid		
		scale value.		
Logs	See "Understanding logging."			
Example, GET URL	http://localhost:8080/png/sample.qxp?scale=2			

spread

The ${\tt spread}$ render modifier lets you render a single spread.

			Lets you specify which	
			spread to render. Spread	
			numbers start with 1.	
Parameters			The first spread is	
Parameters	spread	Integer	spread 1. In a facing-	
			page document, spread	
			1 consists of the first	
			page.	
Compatible with	eps, jpeg, png, postscript	, raw, pdf, screenpdf		
Alerts	The requested spread	oread HTTP Error #500 This alert displays if you specify		
Alerts	does not exist.	an invalid spread.		
Logs	See "Understanding logging."			
Example, GET URL	http://localhost:8080/png/sample.qxp?spread=2			
	To add a spread to a proj	ect, use code like the follo	owing:Spread spread =	
	new Spread(); spread.UID = "5"; spread.operation = "CREATE";			
Example, Object Model	layout.spread = new Spread[]{spread};Spread is located at the following			
	place in the object hierarchy:ModifierRequest < Project < Layout <			
	SpreadTo delete a spread, set its operation attribute to "DELETE".			

spreads

The spreads render modifier lets you render layouts in spreads mode, so that pages in spreads are rendered side-by-side rather than as individual pages.

Parameters	spreads	Boolean (1 0 true	Lets you specify
Turumeters		false yes no)	whether to render

			spreads (true) or
			individual pages (false).
Compatible with	eps, jpeg, png, postscript, raw, pdf, screenpdf		
Logs	See "Understanding logging."		
Example, GET URL	http://localhost:8080/pdf/sample.qxp?spreads=true		

suppresserrors

The suppresserrors render modifier forces QuarkXPress Server to render as much of a layout as it can, despite any errors that occur.

Parameters	suppresserrors	String	Forces the layout to render despite any errors that may occur.
Compatible with	pdf, qxpdoc, xml, postscript		
Logs	See "Understanding logging."		
Example GET URL	http://localhost:8080/png/sample.qxp?box=suppresserrors		

Using content modifiers

Content modifiers let you alter the content and formatting of boxes in layouts without using the XML modify parameter.

Inserting text

This topic explains how to import text into a box. Any existing text in the box is replaced.

			The name of the target
			box.Specify the name
			and location of the
			imported file with the
			file: prefix. The
			imported file must be
			available to
			QuarkXPress Server.To
			import a file that is in a
			subfolder of the
Parameters	[box name]	String	document pool on Mac
			OS, use a path like the
			following:
			file:subfolder:MyFile.ext
			To import a file that is
			in a subfolder of the
			document pool on
			Windows, use a path
			like the following:
			file:subfolder\MyFile.ex
			t
Response	A preview of the project with the imported text.		

Alerts	File not found.	HTTP Error #404 QuarkXPress Server Error #–43 This alert displays if the imported file is not available to QuarkXPress Server.	
Logs	If the request succeeds, a transaction success message is written to the QuarkXPress Server transaction log file. For example: 8/3/2005 11:27:42 — jpeg/sample.qxp — Type: image/jpeg — Size: 31715 — Client: 127.0.0.1If an alert displays, an error message is written to the QuarkXPress Server error log file. For example:8/10/2005 10:32:57 — Error — Error Code: –43		
Example, GET URL	— File not found. http://localhost:8080/sample.qxp?Author=NewText http://localhost:8080/sample.qxp?TopStory=file:TopStory.doc		
Example, object model	Request object name: RequestParameterscom.quark.qxpsm.QRequestContext rc = new com.quark.qxpsm.QRequestContext();; if(!this.DocumentSettings1.documentName.Text.Equals("")) rc.documentName = this.DocumentSettings1.documentName.Text; // STEP 2 (SPECIFIC TO REQUESTS):Create the Box Param // renderer request and embed it in RequestParameters request = new RequestParameters(); NameValueParam nameValue1 = new NameValueParam(); nameValue1.paramName = this.boxname1.Text; if(!this.boxvalue1.Text.Equals("")) nameValue1.textValue = this.boxvalue1.Text; request.params = new NameValueParam[]{nameValue1}; rc.request = request; // Create the service and // call it with QRequestContext object RequestService svc = new RequestService(); com.quark.qxpsm.QContentData qc = svc.processRequest(rc);		
Notes	boxes in one request. This:http://localhost:8080/where text1 and text2 aruse "&" to change the coexample:http://localhost	Story=file:Story.docYou can import an XTags file	

Applying a font at import

This topic explains how to apply a font to a new text flow. When you use this method, QuarkXPress Server ignores the original font of the target text box and inserts the new text with the font specified by the parameter.

Parameters	fontname	String	The name of the font to	
			be applied.	
Response	A preview of the project with the font applied to the imported text.			
Alerts	The specified font is This alert displays if you specify a fon		specify a font that is	
Alerts	not available.	unavailable.		
	If the request succeeds, a transaction success message is written to the			
Logs	QuarkXPress Server transaction log file. For example:12/2/2005 16:24:13			
	— project2.qxp — Type: image/jpeg — Size: 11380 — Client: 127.0.0.1If			
	an error occurs, the error message is written to the QuarkXPress Server			
	1			

	Error Log. The transaction entry in the error log contains the date and		
	time of the request, the error code, and the error message. The following is		
	a sample of an error transaction log entry:12/2/2005 16:16:26 — Error —		
	Error Code: –43 — File not found.		
	To apply Comic Sans MS to text in the box named "HeadBox," use a URL		
Evample CET LIDI	like the		
Example, GET URL	following:http://localhost:8080/png/sample.qxp?HeadBox=Headline&font		
	name=Comic Sans MS		
	Request object name:		
	RequestParameterscom.quark.qxpsm.QRequestContext rc = new		
	com.quark.qxpsm.QRequestContext();		
	if(!this.DocumentSettings1.documentName.Text.Equals(""))		
	rc.documentName = this.DocumentSettings1.documentName.Text; //		
	STEP 2(SPECIFIC TO REQUESTS):Create the fontname // renderer request		
	and embed it in RequestParameters request = new RequestParameters();		
Example, object model	NameValueParam nameValue1 = new NameValueParam();		
	nameValue1.paramName = this.boxname.Text;		
	if(!this.boxvalue1.Text.Equals("")) nameValue1.textValue =		
	this.fontname.Text; request.params = new		
	NameValueParam[]{nameValue1}; rc.request = request; // Create the		
	service and // call it with QRequestContext object RequestService svc =		
	new RequestService(); com.quark.qxpsm.QContentData qc =		
	svc.processRequest(rc);		

Inserting a picture

This topic explains how to import a picture into an empty box or replace an existing picture with a new one.

			The name of the target
			box.Specify the name
			and location of the
			imported file with the
			file: prefix. The
			imported file must be
			available to
			QuarkXPress Server.To
			import a file that is in a
			subfolder of the
Parameters	[box name[String	document pool on Mac
			OS, use a path like the
			following:
			file:subfolder:MyFile.ext
			To import a file that is
			in a subfolder of the
			document pool on
			Windows, use a path
			like the following:
			file:subfolder\MyFile.ex
			t

Response	A preview of the project with the imported picture.		
Alerts		HTTP Error #404 QuarkXPress Server Error #-43	
	File not found.	This alert displays if the imported file is not	
		available to QuarkXPress Server.	
	The specified file failed	HTTD Error #500 This alort displays if you	
	to load in the picture	HTTP Error #500 This alert displays if you	
	box.	attempt to import an invalid picture file.	
	If the request succeeds, a	transaction success message is written to the	
	QuarkXPress Server transaction log file. For example:8/3/2005 11:27:42 —		
	jpeg/sample.qxp — Type	e: image/jpeg — Size: 31715 — Client: 127.0.0.1If	
Logs	an alert is displayed, an	error message is written to the QuarkXPress Server	
	error log. The following	is a sample of the error log entry:8/10/2005	
	10:39:07 — Error — Erro	or Code: 10339 — The specified file failed to load	
	in the picture box.		
Example, GET URL	http://localhost:8080/sample.qxp? PictureBox=file:FrenchOpen.pdf		
	Request object name:		
	RequestParameterscom.quark.qxpsm.QRequestContext rc = new		
	com.quark.qxpsm.QRequestContext();		
	if(!this.DocumentSettings1.documentName.Text.Equals(""))		
	rc.documentName = this.DocumentSettings1.documentName.Text; //STEP		
	2(SPECIFIC TO REQUESTS):Create the Box Param //renderer request and		
	embed it in RequestParameters request = new RequestParameters();		
Example, object model	NameValueParam nameValue1 = new NameValueParam();		
	nameValue1.paramName = this.boxname1.Text;		
	if(!this.boxvalue1.Text.Equals("")) nameValue1.textValue =		
	this.boxvalue1.Text; request.params = new		
	NameValueParam[]{nameValue1}; rc.request = request; //Create the service		
	and call it with QRequestContext object RequestService svc = new		
	RequestService(); com.quark.qxpsm.QContentData qc =		
	svc.processRequest(rc);		
	Box names are case-sensitive. You can use "&" to change the contents of		
Notes	multiple boxes in one request. For		
INOICS	example:http://localhost:8080/sample.qxp?		
	Logo=file:logo.jpeg&TopPicture=file:TopPicture.eps		

Saving a projects with a new name

The saveas content modifier lets you save modified QuarkXPress projects in any supported format to the document pool or to any network location accessible to QuarkXPress Server.

If you send a saveas request to QuarkXPress Server Manager using HTTP or the Web services interface while the common doc pool switch is set to off in the QuarkXPress Server Manager client, the file is saved to all registered QuarkXPress Server instances. If the common doc pool is enabled, the file can be saved to any one registered QuarkXPress server instance.

Parameters	newname	IString	Lets you specify a name for the saved-as project.
	path	String	Lets you specify a

	I		location for the saved-
			as project (other than
			the document pool).
			Lets you specify
			whether the project
			should be saved to the
			document pool.The
			default value for this
			paramter is true.
			However, if you specify
	savetopool	true false	a path value, the
			default value changes
			to false, which means if
			you want the project
			saved to the document
			pool, you must
			explicitly set savetopool
			to true.
			Lets you specify
			whether the saved
		1.01	project should replace a
	replace	true false	project with the same
			name. The default
			value is true.
Response	The message "Document	t successfully saved."	
	HTTP Error #404 QuarkXPress Server Error #-43		
		This alert displays if you	supply an incorrect file
	File not found.	name or the file is not av	
		Server.	•
	HTTP Error #404 QuarkXPress Server Error		XPress Server Error #–43
	Bad filename/	This alert displays if you supply an incorrect file	
Alerts	pathname.	name or the file is not av	
		Server.	
		ITTP Error #500 This alert displays if you supply	
	The file path is invalid.	an invalid path parameter. What to do: Specify	
	The me path is nivana.	the correct file path with the path parameter.	
	The specified folder is	HTTP Error #500 This ale	
	Read-Only.	save a project to a folder	* ' ' '
	· ·	a transaction success message is written to the	
	QuarkXPress Server transaction log file. For example: 11/16/2005 15:41:42		
	— saveas/5mb.qxp — Type: — Size: 28 — Client: 127.0.0.1If an alert		
Logs	displays, an error message is written to the QuarkXPress Server error log		
	file. For example:11/16/2005 15:42:12 — Error — Error Code: 10371 —		
	The file path is invalid.		
	To save a PDF file named "Customer1.pdf" in the folder HDD:temp ar		
	also in the document pool, use a URL like the following. Note that this		
Example, GET URL	URL will cause the saved-as file to replace any existing file with the same		
Laumpie, GET ORE	name.http://localhost:8080/saveas/pdf/sample.qxp?		
	newname=Customer1&path=HDD:temp&savetopool=true		
P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>		
Example, object model	[Request object name: Sar	veAsRequestcom.quark.qx	xpsm.QRequestContext

rc = new com.quark.qxpsm.QRequestContext(); if(!this.DocumentSettings1.documentName.Text.Equals("")) rc.documentName = this.DocumentSettings1.documentName.Text; // STEP 2 (SPECIFIC TO REQUESTS): // Create the Save as request and chain it to the document context SaveAsRequest saveasreq = new SaveAsRequest(); saveasreq.newName = this.newname.Text; if((this.path.Text != null) && (!this.path.Text.Equals(""))) saveasreq.newFilePath = this.path.Text; saveasreq.replaceFile = this.replace.Checked.ToString(); saveasreq.saveToPool = this.savetopool.Checked.ToString(); rc.request = saveasreq; // Create the service and call it with QRequestContext object RequestService svc = new RequestService(); com.quark.qxpsm.QContentData qc = svc.processRequest(rc);

Importing XML with placeholders

This topic explains how to import XML data into boxes using QuarkXPress placeholders.

To use this feature, you must have a QuarkXPress project that has been set up with placeholders that correspond to the element types in a source XML file. For more information, see A Guide to XML Import.

			Lets you specify the
	thexmldoc		XML file containing the
		XML	data to import. The
			path can be absolute or
			relative to the location
			of the XML file. You
			can also supply XML as
			a string.
			Lets you specify which
			layout to render. The
	layout	String	first layout is layout 1.
		_	You can also specify a
			layout by name.
Parameters	paginate	XML	Lets you specify the
			XML file containing the
			data to import. The
			paginate parameter
			reates enough pages in
			the target layout to
			accommodate the
			records in the
			XML.This parameter
			works only with the
			pdf, postscript, and qxp
			render types. If you use
			it with any other render
			type, the server returns
	<u> </u>		

			only the first page of
			the paginated layout.If
			you do not supply an
			XML string or file (for
			example:
			http://localhost:8080/p
			df/Sample.qxp?paginat
			e), QuarkXPress Server
			attempts to use the
			XML file that was
			associated with the
			layout in QuarkXPress.
Response	The layout with the imp	orted XML.	-
		HTTP Error #500 This al	ert displays if you supply
Alerts	Invalid XML String	an invalid XML string in	the thexmldoc
		parameter.	
	If the project is successfu	illy rendered, a transactio	n success message is
	written to the QuarkXPr	ess Server transaction log	file. The transaction
	entry consists of the date	e and time of the request,	the render type, the
	project name, the type o	f response produced by tl	he server, the size of the
Logo	response returned in byt	es, and the client IP addr	ess. The following is a
Logs	sample of a transaction e	entry: 8/5/2005 18:11:54	— sample.qxp — Type:
	image/jpeg — Size: 6598.	2 — Client: 127.0.0.1If ar	n alert displays, an error
	message is written to the	QuarkXPress Server erro	r log file. For
	_	:42 — Error — Error Code	=
	String.		
	When QuarkXPress Serve	er is running on Window	s, use a URL like the
	following:http://localhos	st:8080/Sample.qxp?thex	mldoc= xml</td
	version="1.0"?> <bookre< td=""><td>eview><book><title>C:\/</td><td>Autumn.jpg</title></book></td></bookre<>	eview> <book><title>C:\/</td><td>Autumn.jpg</title></book>	
		an and Dennis Ritchie <td>·= =</td>	·= =
	_	When QuarkXPress Serve	
	use a URL like the follow		,
Example, GET URL		mple.qxp?thexmldoc= ?</td <td>xml version= "1.0"?></td>	xml version= "1.0"?>
	1 *	itle>/Volumes/MacHD/Pi	
	<author> Brian Kernighan and Dennis Ritchie</author>		
	_	Alternatively, you can spe	
		p://localhost:8080/Sampl	
	file:MacHD:Sample.xml		1110
	Request object names:	august augus ODogusetC	ontort no north
	XMLImportRequestcom.quark.qxpsm.QRequestContext rc = new		
	com.quark.qxpsm.QRequestContext(); if(!this.DocumentSettings1.		
	documentName.Text.Equals("")) rc.documentName = this.DocumentSettings1.documentName.Text; // STEP 2 (SPECIFIC TO		
Example, object model		KML Import request XML	
		fLImportRequest(); xmlin	
		c.request = xmlimportreq	
		PEG renderer request JPE	
		(); xmlimportreq.request	
		RequestContext object R	=
	requestservice(); com.qt	ıark.qxpsm.QContentDat	ia yt =

svc.processRequest(rc);

Updating article geometry and content

This topic explains how to update the geometry and contents of a QuarkCopyDesk article using another article file or an article in a QuarkXPress project.

			T	
			If you use this	
			parameter with	
			updatefromfile, this lets	
			you specify the file in	
			which you want to	
			update the geometry. If	
	updategeometry	String	you use this parameter	
			with updatetofile, this	
Parameter			lets you specify the	
Parameter			QuarkXPress project	
			with which you want	
			to update the geometry	
			of an article.	
			Lets you specify the file	
			in which you want to	
	updatecontent	String	update the content.	
			Can be used only with	
			updatefromfile.	
Response	WHAT DOES THIS RETU	JRN?	•	
Alerts	WHAT ERRORS APPLY?			
	If the project is successfully rendered, a transaction success message is			
	written to the QuarkXPress Server transaction log file. The transaction			
	entry consists of the date and time of the request, the render type, the			
	project name, the type of	of response produced by t	he server, the size of the	
Logs	response returned in byt	es, and the client IP addr	ess. The following is a	
Logs	sample of a transaction	entry: 8/5/2005 18:11:54	— sample.qxp — Type:	
	image/jpeg — Size: 6598	2 — Client: 127.0.0.1If a	n alert displays, an error	
	message is written to the QuarkXPress Server error log file. For			
	example:8/9/2005 12:38	:42 — Error — Error Code	e: 10396 — Invalid XML	
	String.			
	To update the geometry	of an article using the ge	ometry of another	
	article, use a URL like the			
	following:http://localhost:8080/updategeometry/destination.qcd?updatefr			
	omfile=source.qcd To update the geometry of an article in a QuarkXPress			
	file using the geometry of a QuarkCopyDesk article file, use a URL like the			
Example, GET URL	following:http://localhost:8080/updatecontent/destination.qxp?updatefro			
	mfile=source.qcd&articleid=1 To update the geometry of a			
	QuarkCopyDesk article file using the geometry of an article in a			
	QuarkXPress project, use a URL like the			
	following:http://localhost:8080/updategeometry/source.qxp?updatetofile=			
	destination.qcd&articleid=1			
D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CAN YOU DO THIS WIT	TH QXPSM? IF SO, HOW?	Request object names:	
Example, object model		.quark.qxpsm.QRequestC	- /	
	<u> </u>			

com.quark.qxpsm.QRequestContext(); if(!this.DocumentSettings1.
documentName.Text.Equals("")) rc.documentName =
this.DocumentSettings1.documentName.Text; // STEP 2 (SPECIFIC TO
REQUESTS): Create the XML Import request XMLImportRequest
xmlimportreq = new XMLImportRequest(); xmlimportreq.XMLDocument
= this.thexmldoc.Text; rc.request = xmlimportreq; // STEP 3(SPECIFIC TO
REQUESTS): Create the JPEG renderer request JPEGRenderRequest jpreq =
new JPEGRenderRequest(); xmlimportreq.request = jpreq; // Create the
service and call it with QRequestContext object RequestService svc = new
RequestService(); com.quark.qxpsm.QContentData qc =
svc.processRequest(rc);

Highlighting text in rendered output

To apply highlighting to text in rendered output, use XML like the following.

```
<RICHTEXT BACKGROUNDCOLOR="Yellow">This text is
highlighted.
```

Highlighting is applied only to rendered output. It is not retained in the QuarkXPress project.

Using XML modify

The modify parameter lets you modify a QuarkXPress project using XML.

This topic covers the modify parameter when it is used without the construct namespace. You can also use the modify parameter to specify an XML file to use when constructing a project; for more information, see "Constructing a project".

The xml namespace takes two arguments: the name of the project to be modified, and a modify parameter with the string or the path of the XML file that describes how to create the project:

```
http://QXPServer8:8080/project1.qxp?modify=
file:path to XML file on server http://QXPServer8 :8080/
project1.qxp?modify=XML string
```

You can also modify QuarkCopyDesk articles. To modify a QuarkCopyDesk article:

http://localhost:8080/copydesk/abc.qcd?modify= file:XMLfile.xml

DTD	Modifier DTD		
			Lets you specify an
			XML file or string that
			describes how to create
			a project. The path can
			be absolute or a relative
			path in the document
Parameters	modify	String	pool. Use the file:
			indicator to specify the
			path.Note that you can
			also include an XML
			file as part of a
			multipart HTTP
			request.

Example GET URL	http://QXPServer8:8080/project1.qxp?modify=file:sample.xml		
	This XML deletes page 2 of a QuarkXPress layout: <project></project>		
Evample VMI	<pre><layout> <id name="Layout 1"></id> <spread> <id uid="1"></id></spread></layout></pre>		
Example XML	<page operation="DELETE"> <id uid="2"></id> </page>		
Response	The updated QuarkXPress project.		
	If the request succeeds, a transaction success message is written to the		
	QuarkXPress Server transaction log file. For example:8/3/2005 11:27:42 —		
	jpeg/sample.qxp — Type: image/jpeg — Size: 31715 — Client: 127.0.0.1If		
Logs	an alert is displayed, an error message is written to the QuarkXPress Server		
	error log. The following is a sample of the error log entry:8/10/2005		
	10:39:07 — Error — Error Code: 10339 — The specified file failed to load		
	in the picture box.		

Modifying box properties and content

To modify box properties and content, use the following parameters in the Modifier DTD:

- "BOX"
- "<u>ID</u>"
- "TEXT"
- "PICTURE"
- "GEOMETRY"
- "CONTENT"
- "SHADOW"
- "FRAME"
- "PLACEHOLDER"
- "METADATA"

The following XML shows how some of these parameters work.

```
<?xml version="1.0" encoding="UTF-8"?>
<PROJECT>
 <LAYOUT>
   <ID NAME="Layout 1"/>
   <SPREAD>
     <ID UID="1"/>
     <BOX BOXTYPE="CT TEXT">
       <ID NAME="SERVICES"/>
       <GEOMETRY>
         <MOVEUP>50</MOVEUP>
         <MOVELEFT>30</MOVELEFT>
         <allowboxontopasteboard>true</allowboxontopasteboard>
        </GEOMETRY>
        <CONTENT CONVERTQUOTES="true">
          HD:QuarkXPress:DocPool:Services.txt</CONTENT>
     </BOX>
      <BOX BOXTYPE="CT TEXT">
       <ID NAME="FAMILY"/>
        <GEOMETRY>
         <MOVERIGHT>20</MOVERIGHT>
```

```
<MOVEDOWN>30</MOVEDOWN>
         <ALLOWBOXONTOPASTEBOARD>true</ALLOWBOXONTOPASTEBOARD>
          <allowboxoffpage>true</allowboxoffpage>
       </GEOMETRY>
      </BOX>
     <BOX BOXTYPE="CT_TEXT">
       <ID NAME="PRODUCTS"/>
        <GEOMETRY>
         <GROWACROSS>44</GROWACROSS>
         <GROWDOWN>30</GROWDOWN>
         <ALLOWBOXONTOPASTEBOARD>false
       </GEOMETRY>
     </BOX>
     <BOX BOXTYPE="CT PICT">
       <ID NAME="MAP"/>
        <GEOMETRY>
         <SHRINKACROSS>30</SHRINKACROSS>
         <SHRINKDOWN>30</SHRINKDOWN>
       </GEOMETRY>
     </BOX>
     <BOX COLOR="Blue" BOXTYPE="CT PICT">
       <ID NAME="CONTACT"/>
         <STACKINGORDER>BRINGTOFRONT</STACKINGORDER>
         <RUNAROUND TYPE="ITEM" TOP="4" RIGHT="4"</pre>
           LEFT="4" BOTTOM="4"/>
         <ALLOWBOXOFFPAGE>false</ALLOWBOXOFFPAGE>
       </GEOMETRY>
     </BOX>
   </SPREAD>
 </LAYOUT>
</PROJECT>
```

If you know the UID attribute of a <CONTENT> element, you can insert content into that <CONTENT> element without having to specify where it is. For example:

```
<PROJECT>
  <CONTENT UID="0">NewPicture.jpg</CONTENT>
</PROJECT>
```

You can also use a <CONTENT> element to insert additional text between two

<RICHTEXT> elements, like so:

Response	A preview of the QuarkXPress project with a new box created in the specified position.	
Response		
		HTTP Error #404 QuarkXPress Server Error #–43
	File not found.	This alert displays if you specify an invalid XML
		file or request a document that is not available to
		QuarkXPress Server.
Alerts	Bad filename/pathname.	HTTP Error #404 QuarkXPress Server Error #–37
		This alert displays if you specify an invalid file
		name or path.
	The XML document is	HTTP Error #500 This alert displays if the XML

	not valid or well	you supply is not well-formed or does not adhere	
	formed.	to the Modifier DTD.	
	The XML document		
	contains an invalid tag	HTTP Error #500 This alert displays if you supply	
	value.	an invalid value in the XML.	
		a transaction success message is written to the	
		saction log file. For example: 8/3/2005 11:27:42 —	
Logs	jpeg/sample.qxp — Type: image/jpeg — Size: 31715 — Client: 127.0.0.1If		
0-	1	or message is written to the QuarkXPress Server	
	error log file. For examp	_	
		er is running on Windows, use a URL like the	
		st:8080/sample.qxp?modify=	
		When QuarkXPress Server is running on Mac OS,	
	1 *	ving:http://localhost:8080/sample.qxp?modify=	
		Box.xml You can also supply a string that consists	
Example GET URL	of valid XML command	11.	
Example GET ORE		t:8080/sample.qxp?modify=	
	1 * *	ID UID="Layout1"/> <spread><id uid="1"></id></spread>	
	1	ICT" COLOR="Blue" SHADE="50"	
		ME="MOUNTAINS"/> <content></content>	
		ENT>	
	<u> </u>	odifierRequest ModifierRequestContents Layout	
	1 * '	ound ModifierFileRequestFor ModifierFileRequest,	
	1		
	the member contents are used to set the file path or send the XML itself.		
	<pre>com.quark.qxpsm.QRequestContext rc = new com.quark.qxpsm.QRequestContext();</pre>		
	1	gs1.documentName.Text.Equals(""))	
	1	-	
		s.DocumentSettings1.documentName.Text;	
	1	EQUESTS): //Create the BOX modifier renderer	
	1 *	n request context ModifierRequest request = new	
	1 - 1	ct contents = new Project(); Geometry geo = new	
Example 1, object	Geometry(); geo.moveUp = this.moveup.Text; geo.color = this.color.Text;		
model	1	owdown.Text; geo.shrinkAcross =	
	this.shrinkacross.Text; Box box = new Box(); box.UID = this.Boxid.Text;		
	1	vout layout1 = new Layout(); layout1.name =	
	1	.boxes = new Box[]{box};	
	1 '	ed == true) { Runaround runaround = new	
	-	nd.type = this.runaroundtype.Text;	
		p.Text; runaround.left = this.left.Text;	
	_ ~	ight.Text; geo.runaround = runaround; }	
		Layout[]{layout1}; request.project = contents;	
	rc.request = request; //Create the service and call it with		
	_ ·	RequestService svc = new RequestService();	
		ntentData qc = svc.processRequest(rc);	
		properties of an existing box in a QuarkXPress	
	project, use the followin	g object hierarchy:ModifierRequest < Project <	
Example 2, object	Layout < Spread < Box <	Geometry The Geometry object has the following	
model	properties:allowBoxOffP	age allowBoxOnToPasteBoard angle growAcross	
	growDown layer linestyl	le (of type 'Linestyle') moveDown moveLeft	
	moveRight moveUp pag	ge position (of type 'Position') runaround (of type	
l	1		

'Runaround') shape shrinkAcross shrinkDown stackingOrder suppressOutput The Runaround object has the following properties:bottom edited invert left noise outset outsideOnly pathName restrictToBox right smoothness threshold top type

Creating boxes

To create a new box, use the following parameters in the Modifier DTD:

- "BOX"
- "<u>ID</u>"
- "TEXT"
- "PICTURE"
- "GEOMETRY"
- "CONTENT"
- "SHADOW"
- "FRAME"

The following XML shows how some of these parameters work.

```
<PROJECT>
  <LAYOUT>
   <ID UID="layout 1"/>
   <SPREAD>
   <ID UID="1"/>
      <ID/>
      <BOX OPERATION="CREATE" BOXTYPE="CT PICT">
        <ID NAME="PRODUCTS"/>
        <GEOMETRY PAGE="2" SHAPE="SH RECT">
         <POSITION>
            <TOP>5</TOP>
            <LEFT>5</LEFT>
           <BOTTOM>10</BOTTOM>
           <RIGHT>10</RIGHT>
          </POSITION>
        </GEOMETRY>
      </BOX>
   </SPREAD>
  </LAYOUT>
</PROJECT>
```

Response	A preview of the QuarkXPress pro	oject with new box created in
Response	specified position.	
		HTTP Error #404 QuarkXPress
		Server Error #–43 This alert
	File not found.	displays if you specify an
	rile not found.	invalid XML file or request a
Alerts		document that is not available
Alerts		to QuarkXPress Server.
		HTTP Error #404 QuarkXPress
	Bad filename/ pathname.	Server Error #–37 This alert
	Bad mename, patimame.	displays if you specify an
		invalid file name or path.

		HTTP Error #500This alert	
	The XML document is not valid	displays if the XML you supply	
	or well formed.	is not well-formed or does not	
		adhere to the Modifier DTD.	
		HTTP Error #500 This alert	
	The XML document contains an	displays if you supply an invalid	
	invalid tag value.	value in the XML.	
	If the request succeeds, a transact		
	the QuarkXPress Server transaction	- 1	
	following is a sample of a transaction entry: 8/3/2005 11:27:42 —		
	jpeg/sample.qxp — Type: image/	-	
Logs	127.0.0.1If an alert displays, an e	′¹ °	
	QuarkXPress Server error log file.	-	
	14:51:50 — Error — Error Code:	-	
	not valid or well formed. Projec		
		ning on Windows, use a URL like	
	the following:http://localhost:80		
	file:C:\createBox.xml When QuarkXPress Server is running on		
	Mac OS, use a URL like the		
	following:http://localhost:8080/sample.qxp?modify=		
	file:MacHD:xml:createBox.xml You can also supply a string that		
	consists of valid XML commands. For		
Example, GET URL	example:http://localhost:8080/sample.qxp?modify= <project><l< td=""></l<></project>		
	AYOUT> <id uid="layout 1"></id> <	SPREAD> <id uid="1"></id> <id></id>	
	<box box<="" operation="CREATE" td=""><td>OXTYPE="CT_PICT"><id< td=""></id<></td></box>	OXTYPE="CT_PICT"> <id< td=""></id<>	
	NAME="PRODUCTS"/> <geome< td=""><td>ETRY PAGE="2"</td></geome<>	ETRY PAGE="2"	
	SHAPE="SH_RECT"> <position></position>	> <top>5</top>	
	<left>5</left> <bottom>10<!--</td--><td>/BOTTOM><right>10</right></td></bottom>	/BOTTOM> <right>10</right>	
	<td>></td>	>	
	To create a new box, use code like	e the following:Spread spread =	
	new Spread(); Box box = new Box	x(); box.name = "textbox1";	
	Geometry geometry = new Geom	netry(); Position position = new	
	Position(); position.top = "110"; position.left = "89";		
	position.bottom = "220"; position.right = "300";		
Example, object model	geometry.position = position; geometry.shape = "SH_RECT";		
	geometry.page = "1"; geometry.la	, · ·	
	= geometry; box.boxType = "CT_	•	
	1		
	hierarchy: ModifierRequest < Proj	- · · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·	cci \ Layoui \ Spieau \ box \	
	Geometry		

Deleting boxes

To delete a box, use the following parameters in the Modifier DTD:

- "BOX"
- "<u>ID</u>"

The following XML shows how these parameters work.

<PROJECT>

```
<LAYOUT>
<ID UID="Layout 1"/>
<SPREAD>
<ID UID="1"/>
<BOX OPERATION="DELETE">
<ID NAME="SERVICES"/>
</BOX>
</SPREAD>
</LAYOUT>
</PROJECT>
```

Response	A preview of the Quark	A preview of the QuarkXPress project with the box deleted.		
		HTTP Error #404 QuarkXPress Server Error #-43		
	File not found.	This alert displays if you specify an invalid XML		
	rife flot fourid.	file or request a document that is not available to		
		QuarkXPress Server.		
	Bad filename/	HTTP Error #404 QuarkXPress Server Error #–37		
	pathname.	This alert displays if you specify an invalid file		
Alerts		name or path.		
	The XML document is	HTTP Error #500 This alert displays if the XML		
	not valid or well	you supply is not well-formed or does not adhere		
	formed.	to the Modifier DTD.		
	The XML document	HTTP Error #500 This alert displays if you supply		
	contains an invalid tag	an invalid value in the XML.		
	value.			
	-	a transaction success message is written to the		
		saction log file. For example: 8/3/2005 11:27:42 —		
Logs		jpeg/sample.qxp — Type: image/jpeg — Size: 31715 — Client: 127.0.0.1If		
	an alert displays, an error message is written to the QuarkXPress			
	9 1	error log file. For example:		
	When QuarkXPress Server is running on Windows, use a URL like the			
	following:http://localhost:8080/sample.qxp?modify=			
	file:C:\deleteBox.xml When QuarkXPress Server is running on Mac OS,			
		ving:http://localhost:8080/sample.qxp?modify=		
Example GET URL		file:MacHD:xml:deleteBox.xml You can also supply a string that consists		
		of valid XML commands. For example:		
	http://localhost:8080/sample.qxp?modify= <project><layout><id< td=""></id<></layout></project>			
	1 '	UID="Layout1"/> <spread> <id uid="1"></id><box< td=""></box<></spread>		
		OPERATION="DELETE"> <id name="HISTORY"></id>		
Notes		You can use the xml namespace or Telegraph XTensions software to		
determine the ID or name of the I		ne of the box you want to delete.		

Grouping and ungrouping items

To group boxes using XML modify, use XML like the following:

```
<BOX BOXTYPE="CT_TEXT" COLOR="White">
     <ID NAME="MainStoryText" UID="217"/>
     </BOX>

<BOX BOXTYPE="CT_PICT">
      <ID NAME="MainStoryPhoto" UID="218"/>
     </BOX>

<GROUP>
```

```
<ID NAME="MainStoryGroup" UID="300"</pre>
OPERATION="CREATE"
  <BOXREF NAME="MainStoryText" UID="217"/>
  <BOXREF NAME="MainStoryPhoto" UID="218"/>
</GROUP>
To add a box to an existing group, use XML like the following:
<GROUP>
 <ID NAME="MainStoryGroup" UID="300"/>
 <BOXREF NAME="MainStoryText" UID="217"/>
  <BOXREF NAME="MainStoryPhoto" UID="218"</pre>
OPERATION="CREATE"
</GROUP>
To remove a box from an existing group, use XML like the following:
<GROUP>
  <ID NAME="MainStoryGroup" UID="300"/>
  <BOXREF NAME="MainStoryHead" UID="216"/>
  <BOXREF NAME="MainStoryText" UID="217"/>
  <BOXREF NAME="MainStoryPhoto" UID="218" OPERATION="DELETE" />
</GROUP>
To ungroup an existing group, use XML like the following:
<GROUP>
  <ID NAME="MainStoryGroup" UID="300" OPERATION="DELETE" />
</GROUP>
To proportionally scale all of the items in a group, add a <GEOMETRY> element that
indicates the new size of the group, like so:
<GROUP>
 <ID NAME="MainStoryGroup" UID="300"/>
```

```
<GEOMETRY> <POSITION> <TOP>10.0</TOP>
```

```
<RIGHT>70.0</RIGHT>
          </POSITION> </GEOMETRY>
```

</GROUP>

- The order of the <BOXREF> elements in a <GROUP> indicates the order in which the boxes were selected prior to grouping. The z-order of boxes in the layout is determined by the order of the <BOX> elements in the XML, from rearmost to frontmost.
- → XML representations of groups created by versions of QuarkXPress Server prior to 8.1 are ignored during construct and modify calls, as they were in earlier versions of QuarkXPress Server.

Modifying text attributes

You can use the modify parameter to change the attributes of text in a QuarkXPress project. All modifications are done on a text box basis. To modify text properties, use the following parameters in the Modifier DTD:

- "BOX"
- "ID"
- "TEXT"
- "STORY"

- "PARAGRAPH"
- "FORMAT"
- "SHADINGSTYLE (Modifier schema)"
- "DROPCAP"
- "TABSPEC"
- "TAB"
- "RULE"
- "RICHTEXT"

The following XML shows how some of these parameters work.

```
<PROJECT>
  <LAYOUT>
   <ID UID="Layout 1"/>
    <SPREAD>
     <ID UID="1"/>
      <BOX BOXTYPE="CT TEXT">
       <ID NAME="ABOUT"/>
        <TEXT>
          <STORY CLEAROLDTEXT="true" FITTEXTTOBOX="true"</pre>
           CONVERTQUOTES="true">
           <RICHTEXT FONT="Castellar" PLAIN="true"/>
         </STORY>
        </TEXT>
      </BOX>
      <BOX BOXTYPE="CT TEXT">
        <ID NAME="HISTORY"/>
        <TEXT>
          <STORY>
            <PARAGRAPH>
              <FORMAT ALIGNMENT="RIGHT">
                <SHADINGSTYLE COLOR="Yellow"</pre>
                              SHADE="30%"
                              OPACITY="20%"
                              LENGTH="COLUMN"
                              CLIPTOBOX="true"
                              RIGHTPADDING="4pt"
                              BOTTOMPADDING="2pt"
                               LEFTPADDING="2pt"
                               TOPPADDING="1pt"/>
              </FORMAT>
              <RICHTEXT SIZE="12">This text is 12pt and right
               justified.</RICHTEXT>
            </PARAGRAPH>
          </STORY>
        </TEXT>
      </BOX>
      <BOX BOXTYPE="CT TEXT">
        <ID NAME="PRODUCTS"/>
        <TEXT>
            <RICHTEXT BOLD="true">This is bold text.
            <RICHTEXT BOLD="true" COLOR="Red" ITALIC="true"</pre>
             SIZE="20">This text is bold, red, italic, and 20pt.
           </RICHTEXT>
          </STORY>
        </TEXT>
      </BOX>
    </SPREAD>
  </LAYOUT>
```

</PROJECT>

Response	A preview of a QuarkXPress project with the values in the ModifierXT tags applied on text boxes.		
	applied off text boxes.	LITTE Ennon #404 Oscarl-V Droce Convent Ennon # 42	
		HTTP Error #404 QuarkXPress Server Error #–43	
	File not found.	This alert displays if you specify an invalid XML	
		file or request a document that is not available to	
		QuarkXPress Server.	
	Bad filename/	HTTP Error #404 QuarkXPress Server Error #-37	
	pathname.	This alert displays if you specify an invalid file	
	patimame.	name or path.	
	The XML document is	HTTP Error #500 This alert displays if the XML	
	not valid or well	you supply is not well-formed or does not adhere	
	formed.	to the Modifier DTD.	
	There is no box with	HTTP Error #500 This alert displays if the box	
		specified by the child text node of an <id></id>	
	the specified identifier.	element does not exist.	
		HTTP Error #500 This alert displays if the value	
Alerts	The text size value is	specified in a <size> element is invalid. What to</size>	
	outside the valid range.	do: Specify a value between 2 and 720 points.	
	The specified color is		
	not available to the	HTTP Error #500 This alert displays if the value	
	document	specified in a <color> element is invalid.</color>	
		HTTP Error #500 This alert displays if the value	
	The specified font is not available	specified in a element is invalid or the	
		specified font is not present on the server.	
	The XML document	specified for it is not present on the server.	
	contains an invalid tag	HTTP Error #500 This alert displays if you supply	
	value.	an invalid value in the XML.	
		HTTP Error #500 This alert displays if you try to	
	The specified box	modify text properties on a box that is not a text	
cannot be modified.	box.		
	If the request succeeds	a transaction success message is written to the	
		<u> </u>	
	QuarkXPress Server transaction log file. For example: 8/3/2005 11:27		
	jpeg/sample.qxp — Type: image/jpeg — Size: 31715 — Client: 127.0.0.1If		
Logs			
Logs	an alert displays, an erro	or message is written to the QuarkXPress Server	
Logs	an alert displays, an erro	or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006	
Logs	an alert displays, an error log file. For examp — There is no box with	or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier.	
Logs	an alert displays, an error log file. For examp — There is no box with When QuarkXPress Serv	or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. Fer is running on Windows, use a URL like the	
Logs	an alert displays, an error log file. For examp — There is no box with When QuarkXPress Serv following:http://localho	or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. The rer is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml	
Logs	an alert displays, an error log file. For examp — There is no box with When QuarkXPress Serv following:http://localho	or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. Fer is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml er is running on Mac OS, use a URL like the	
Logs	an alert displays, an error log file. For examp — There is no box with When QuarkXPress Serv following:http://localho When QuarkXPress Serv following:http://localho	or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. For is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml for is running on Mac OS, use a URL like the st:8080/sample.qxp?modify=	
Logs	an alert displays, an error error log file. For examp — There is no box with When QuarkXPress Serv following:http://localho When QuarkXPress Serv following:http://localho file:MacHD:xml:modifie	or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. The rest is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml for is running on Mac OS, use a URL like the st:8080/sample.qxp?modify= r.xml You can also supply a string that consists of	
	an alert displays, an error error log file. For examp — There is no box with When QuarkXPress Serv following:http://localho When QuarkXPress Serv following:http://localho file:MacHD:xml:modifie valid XML commands. F	or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. For is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml fer is running on Mac OS, use a URL like the st:8080/sample.qxp?modify= r.xml You can also supply a string that consists of For example:	
Logs Example GET URL	an alert displays, an error error log file. For examp — There is no box with When QuarkXPress Serv following:http://localho When QuarkXPress Serv following:http://localho file:MacHD:xml:modifie valid XML commands. I http://localhost:8080/sa	or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. For is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml For is running on Mac OS, use a URL like the st:8080/sample.qxp?modify= For example.qxp?modify= For example: In the proof of the QuarkXPress Server Representation of the QuarkXPress Ser	
	an alert displays, an error error log file. For examp — There is no box with When QuarkXPress Serv following:http://localho When QuarkXPress Serv following:http://localho file:MacHD:xml:modifie valid XML commands. F http://localhost:8080/sa UID="1"/> <spread><ii< td=""><td>or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. For is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml For is running on Mac OS, use a URL like the st:8080/sample.qxp?modify= For example.qxp?modify= For example: In the structure of the content of</td></ii<></spread>	or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. For is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml For is running on Mac OS, use a URL like the st:8080/sample.qxp?modify= For example.qxp?modify= For example: In the structure of the content of	
	an alert displays, an error error log file. For examp — There is no box with When QuarkXPress Serv following:http://localho When QuarkXPress Serv following:http://localho file:MacHD:xml:modifie valid XML commands. F http://localhost:8080/sa UID="1"/> <spread><ii< td=""><td>or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. For is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml For is running on Mac OS, use a URL like the st:8080/sample.qxp?modify= For example.qxp?modify= For example: In the proof of the QuarkXPress Server Representation of the QuarkXPress Ser</td></ii<></spread>	or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. For is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml For is running on Mac OS, use a URL like the st:8080/sample.qxp?modify= For example.qxp?modify= For example: In the proof of the QuarkXPress Server Representation of the QuarkXPress Ser	
	an alert displays, an error error log file. For examp — There is no box with When QuarkXPress Serv following:http://localho When QuarkXPress Serv following:http://localho file:MacHD:xml:modifie valid XML commands. F http://localhost:8080/sa UID="1"/> <spread><ii< td=""><td>or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. For is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml for is running on Mac OS, use a URL like the st:8080/sample.qxp?modify= r.xml You can also supply a string that consists of for example: Imple.qxp?modify= <project><layout><id o="" uid="1"></id> <box boxtype="CT_TEXT"><id o="" uid="1"></id> <text><story><richtext< td=""></richtext<></story></text></box></layout></project></td></ii<></spread>	or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. For is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml for is running on Mac OS, use a URL like the st:8080/sample.qxp?modify= r.xml You can also supply a string that consists of for example: Imple.qxp?modify= <project><layout><id o="" uid="1"></id> <box boxtype="CT_TEXT"><id o="" uid="1"></id> <text><story><richtext< td=""></richtext<></story></text></box></layout></project>	
	an alert displays, an error error log file. For examp — There is no box with When QuarkXPress Serv following:http://localho When QuarkXPress Serv following:http://localho file:MacHD:xml:modifie valid XML commands. Fhttp://localhost:8080/sa UID="1"/> <spread><ii "="" 1"="" name="BACKGROUND</td><td>or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. Fer is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml fer is running on Mac OS, use a URL like the st:8080/sample.qxp?modify= r.xml You can also supply a string that consists of for example: Imple.qxp?modify= <PROJECT><LAYOUT><ID OUID="> <box boxtype="CT_TEXT"> <id "="" ouid="1"> <text><story><richtext "true"="" ==""> This is</richtext></story></text></id></box></ii></spread>		
	an alert displays, an error error log file. For examp — There is no box with When QuarkXPress Serv following:http://localho When QuarkXPress Serv following:http://localho file:MacHD:xml:modifie valid XML commands. F http://localhost:8080/sa UID="1"/> <spread><ii castella"="" name="BACKGROUND FONT=" plain<="" td=""><td>or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. Fer is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml Fer is running on Mac OS, use a URL like the st:8080/sample.qxp?modify= Fr.xml You can also supply a string that consists of for example: For example: For example: For UID="1"/> <box boxtype="CT_TEXT"><id for="" uid="1"></id> <text><story><richtext example:="" example<="" for="" td=""></richtext></story></text></box></td></ii></spread>	or message is written to the QuarkXPress Server le:8/5/2005 13:32:10 — Error — Error Code: 10006 the specified identifier. Fer is running on Windows, use a URL like the st:8080/sample.qxp?modify= file:C:\modifier.xml Fer is running on Mac OS, use a URL like the st:8080/sample.qxp?modify= Fr.xml You can also supply a string that consists of for example: For example: For example: For UID="1"/> <box boxtype="CT_TEXT"><id for="" uid="1"></id> <text><story><richtext example:="" example<="" for="" td=""></richtext></story></text></box>	

model	In the the time is the second of the second
modei	RichText Text ID Box Layout ModifierFileRequestFor ModifierFileRequest,
	the member contents are used to set the file path or send the XML itself.
	com.quark.qxpsm.QRequestContext rc = new
	com.quark.qxpsm.QRequestContext();
	if(!this.DocumentSettings1.documentName.Text.Equals(""))
	rc.documentName = this.DocumentSettings1.documentName.Text; //
	STEP 2 (SPECIFIC TO REQUESTS):Create the Text Modifier // renderer
	request and embed it in request context ModifierRequest textReq = new
	ModifierRequest(); Project contents = new Project(); RichText richText1 =
	new RichText(); richText1.value = this.text1.Text; richText1.color =
	this.color1.Text; Text boxText1 = new Text(); Story story = new Story();
	story.richText = new RichText[]{richText1}; boxText1.story = story;
	<pre>if(this.fittextbox1.Checked) boxText1.fitTextToBox = "true";</pre>
	if(this.clearoldtext1.Checked) boxText1.clearOldText = "true"; Box box1 =
	new Box(); box1.UID = txtBox1; box1.text = boxText1; Layout layout1 =
	new Layout(); layout1.name = layoutText; layout1.boxes = new
	Box[]{box1}; contents.layouts = new Layout[]{layout1}; textReq.contents =
	contents; rc.request = textReq; // Create the service and call it with
	QRequestContext object RequestService svc = new RequestService();
	com.quark.qxpsm.QContentData qc = svc.processRequest(rc);
	To edit the properties of an existing text box in a QuarkXPress project, use
	the following object hierarchy:ModifierRequest < Project < Layout <
Example 2, object	Spread < Box < Text < Story < Paragraph < RichText For a list of the
model	RichText object's properties, see the JavaDoc installed with QuarkXPress
	Manager. The Story object also contains some text-related properties:
	fitTextToBox, includeStylesheets, convertQuotes, and clearOldText.
	The <fittexttobox> attribute depends on two preferences: Allow Text</fittexttobox>
Notes	to Grow and Font Size. To set these preferences in QuarkXPress Server,
inotes	choose QuarkXPress > Server > Preferences and then click Modifier in the
	list on the left.

Modifying picture properties

You can modify the properties (such as origin, scale, angle, skew, and orientation) of pictures in a QuarkXPress project with XML. To modify picture properties, use the following parameters in the Modifier DTD:

- "BOX"
- "<u>ID</u>"
- "PICTURE"

The following XML shows how some of these parameters work.

```
</BOX>
      <BOX BOXTYPE="CT PICT">
       <ID NAME="MOUNTAINS"/>
        <PICTURE FIT="CENTERPICTURE" ANGLE="30" SKEW="30"</pre>
         FLIPHORIZONTAL="false"/>
      </BOX>
      <BOX BOXTYPE="CT PICT">
       <ID NAME="OFFICES"/>
       <PICTURE FIT="FITPICTURETOBOX" ANGLE="30" SKEW="30"</pre>
         FLIPHORIZONTAL="false"/>
      </BOX>
      <BOX BOXTYPE="CT_PICT">
       <ID NAME="PRODUCTS"/>
        <PICTURE FIT="FITPICTURETOBOX" ANGLE="30" SKEW="30"</pre>
         FLIPHORIZONTAL="false"/>
      <BOX BOXTYPE="CT PICT">
       <ID NAME="SERVICES"/>
       <PICTURE FIT="FITPICTURETOBOXPRO"/>
     </BOX>
   </SPREAD>
  </LAYOUT>
</PROJECT>
```

Despense	A preview of the QuarkXPress project with image modifier tags applied the picture boxes.		
Response			
	File not found.	HTTP Error #404 QuarkXPress Server Error #-43 This alert displays if you specify an invalid XML file or request a document that is not available to QuarkXPress Server.	
	Bad filename/ pathname.	HTTP Error #404 QuarkXPress Server Error #–37 This alert displays if you specify an invalid file name or path.	
	The XML document is not valid or well formed.	HTTP Error #500 This alert displays if the XML you supply is not well-formed or does not adhere to the Modifier DTD.	
	There is no box with the specified identifier.	HTTP Error #500 This alert displays if the box specified by the child text node of the <id> element does not exist.</id>	
Alerts	The value of Scale Across should be between 10% and 1000%.	HTTP Error #500 This alert displays if the value of the child text node of a <scaleacross> element is invalid.</scaleacross>	
	The Value of Scale Down should be between 10% and 1000%.	HTTP Error #500 This alert displays if the value of the child text node of a <scaledown> element is invalid.</scaledown>	
	The value of Offset Across is in invalid range.	HTTP Error #500 This alert displays if the value of the child text node of the <offsetacross> element is invalid.</offsetacross>	
	The value of Offset Down is in invalid range	HTTP Error #500 This alert displays if the value of the child text node of the <offsetdown> element is invalid.</offsetdown>	
	The value of Picture Angle must be between	HTTP Error #500 This alert displays if the value of the child text node of the <angle> element</angle>	

	-360 and 360 degrees.	is invalid.	
	The value of Picture	HTTP Error #500 This alert displays if the value	
	Skew must be between	of the child text node of the <skew> element is</skew>	
	-75 and 75 degrees.	invalid.	
	The XML document		
	contains an invalid tag	HTTP Error #500 This alert displays if you supply	
	value.	an invalid value in the XML.	
	value.	HTTP Error #500 This alert displays if you try to	
	The specified box	modify picture properties on a box that is not a	
	cannot be modified.	picture box.	
	If the request succeeds is	1-	
	If the request succeeds, a transaction success message is written to the		
	QuarkXPress Server transaction log file. For example: 8/3/2005 11:27:42 —		
Logs	jpeg/sample.qxp — Type: image/jpeg — Size: 31715 — Client: 127.0.0.1If		
	1 1	r message is written to the QuarkXPress Server	
		le:8/10/2005 10:39:07 — Error — Error Code:	
	-	le failed to load in the picture box.	
		er is running on Windows, use a URL like the	
	1 "	st:8080/sample.qxp?modify=	
	1	kml When QuarkXPress Server is running on Mac	
	OS, use a URL like the		
	following:http://localho	st:8080/sample.qxp?modify=	
Example GET URL	file:MacHD:xml:imageProperties.xml You can also supply a string that		
Example GET ORL	consists of valid XML commands. For example:		
	http://localhost:8080/sample.qxp?modify= <project><layout><id< td=""></id<></layout></project>		
	UID="1"/> <spread> <id uid="1"></id><box boxtype="CT_PICT"> <id< td=""></id<></box></spread>		
	NAME="EVEREST"/> <picture <="" scaleacross="50" td=""></picture>		
	OFFSETDOWN="20" ANGLE="30" FIT="CENTERPICTURE" SKEW="30"		
	FLIPHORIZONTAL="false"/>		
	Request object names:ModifierRequest ModifierStreamRequest Proje		
	Picture Layout ModifierFileRequestFor ModifierFileRequest, the member		
	contents are used to set the file path or send the XML itself.		
	com.quark.qxpsm.QRequestContext rc = new		
	com.quark.qxpsm.QRequestContext();		
	if(!this.DocumentSettings1.documentName.Text.Equals(""))		
	rc.documentName = this.DocumentSettings1.documentName.Text; //		
	STEP 2(SPECIFIC TO REQUESTS):Create the Image // Modifier renderer		
	request and embed it in ModifierRequest imgReq = new ModifierRequest();		
	Project contents = new Project(); Picture picture1 = new Picture();		
Example 1, object	picture1.scaleAcross = this.scaleacross1.Text; picture1.scaleDown =		
model	this.scaledown1.Text; if(this.fitpicturebox1.Checked == true)		
	picture1.fitPictureToBox = "true"; if(this.flipvertical1.Checked == true)		
	picture1.fitricture10b0x = true; if(this.fliphorizontal1.Checked == true)		
	picture1.flipHorizontal = "true"; Box box1 = new Box(); box1.UID =		
	txtBox1; box1.picture = picture1; Layout layout1 = new Layout();		
	layout1.name = layoutText; imgReq.contents = contents; contents.layouts		
	= new Layout[]{layout1}; layout1.boxes = new Box[]{box1}; rc.request =		
	imgReq; // Create the service and call it with QRequestContext object		
	RequestService svc = new RequestService(); com.quark.qxpsm.QContentData qc = svc.processRequest(rc);		
Example 2, object	To edit the properties of an existing text box in a QuarkXPress project, use		
	1		

model	the following object hierarchy:ModifierRequest < Project < Layout <	
	Spread < Box < Picture For a list of the Picture object's properties, see the	
	JavaDoc installed with QuarkXPress Manager.	
	You cannot replace an image with the Modifier XTensions software. If you	
Natas	specify <fitpicturetobox>, <fitboxtopicture>, and</fitboxtopicture></fitpicturetobox>	
Notes	<fitpicturetoboxpro> for a picture, only the first of these elements</fitpicturetoboxpro>	
	will be applied.	

Importing data

Imports text or image data into a project. You can use import any text or picture file format supported by QuarkXPress, including XPress Tags files.

You can import .doc, .docx, .dot, .dotx, and .docm files.

To import text or image data into a project, use the following parameters in the Modifier DTD:

- "BOX "
- "<u>ID</u>"
- "PICTURE" (this is not a required element when importing data)
- "TEXT"
- "STORY"
- "CONTENT"

The following XML shows how some of these parameters work.

```
<PROJECT>
    <ID NAME="Layout 1"/>
    <SPREAD>
     <ID UID="1"/>
     <BOX BOXTYPE="CT PICT">
       <ID NAME="ABOUT"/>
       <PICTURE/>
       <CONTENT>C:\docs\file1.jpg</CONTENT>
      </BOX>
      <BOX BOXTYPE="CT TEXT">
       <ID NAME="PRODUCTS"/>
        <CONTENT>file:C:\docs\file2.txt</CONTENT>
      </BOX>
      <BOX BOXTYPE="CT TEXT">
        <ID NAME="SERVICES"/>
         <STORY FILE="file:C:\docs\file3.doc"
CONVERTQUOTES="true"
          INCLUDESTYLESHEETS="true"/>
       </TEXT>
      </BOX>
   </SPREAD>
  </LAYOUT>
</PROJECT>
```

IResponse	A preview of a QuarkXPress project with a val import XML tags applied to the text boxes.	
Alerts	I File not found.	HTTP Error #404 QuarkXPress Server Error #–43 This alert

	1	4:1:£:£	
		displays if you specify an	
		invalid XML file or request a	
		document that is not available	
		to QuarkXPress Server.	
		HTTP Error #500 This alert	
	The XML document is not valid	displays if the XML you supply	
	or well formed.	is not well-formed or does not	
		adhere to the Modifier DTD.	
		HTTP Error #500 This alert	
	There is no box with the	displays if the box specified by	
	specified identifier.	the child text node of the <id></id>	
		element does not exist.	
		HTTP Error #500 This alert	
	The specified box is not a	displays if you request a box	
	picture or text box.	that is not a text box or a	
	Preciate of tent bond	picture box.	
		HTTP Error #500 This alert	
		displays if you request data	
		* ' ' '	
	A locked layer cannot be	from a box on a locked layer. What to do: Open the project in	
	manipulated.	1	
		QuarkXPress, display the Layers	
		palette, and unlock the box's	
		layer.	
		HTTP Error #500 QuarkXPress	
	Unable to read picture (#106)	Server Error #–109 This alert	
		displays if you try to import a	
		text file into a picture box.	
		HTTP Error #404 QuarkXPress	
		Server Error #–37 This alert	
	Bad filename/ pathname	displays if you try to import an	
		invalid or nonexistent file into a	
		box.	
	If the request succeeds, a transact	tion success message is written to	
	the QuarkXPress Server transaction	on log file. For example:	
	8/5/2005 18:11:54 — sample.qxp	— Type: image/jpeg — Size:	
Logs	65982 — Client: 127.0.0.1If an alert displays, an error message is		
	written to the QuarkXPress Serve	r error log file. For	
	example:8/5/2005 18:01:59 — Er	ror — Error Code: 10343 — A	
	locked Layer cannot be manipula	nted.	
	When QuarkXPress Server is run	ning on Windows, use a URL like	
	the following:http://localhost:80		
	file:c:\file.xml When QuarkXPress Server is running on Mac OS,		
	use a URL like the		
Evample CET LIDI	following:http://localhost:8080/Sample.qxp?modify=		
Example GET URL	file:HDD:file.xml You can also supply a string that consists of		
	valid XML commands. For example:		
	1		
	http://localhost:8080/sample.qxp	o?modify=	
	http://localhost:8080/sample.qxp <project><layout><id uid="</td"><td>o?modify= "Layout1"/><spread><id< td=""></id<></spread></td></id></layout></project>	o?modify= "Layout1"/> <spread><id< td=""></id<></spread>	
	http://localhost:8080/sample.qxp	o?modify= "Layout1"/> <spread><id _TEXT"><id name="TREES"></id></id </spread>	

	When specifying a
	path, use URLs like the following:
	http://localhost:8080/Sample.qxp?
	textboxname@dataimport=file:c:\file.txt
	http://localhost:8080/Sample.qxp?
	1
	pictureboxname@dataimport=c:\file.jpg You can import text
	directly into a box from the URL string. For example:
	http://localhost:8080/Sample.qxp?
	textboxname@dataimport=Newdata When you import a file that
	uses style sheets, you can control how those style sheets are
	handled. For example: http://localhost:8080/Documentname?
	textboxname@dataimport=file:c:\file.doc&
	textboxnameincludestylesheets@dataimport=yes You can control
	how quotation marks are handled at import. For example:
	http://localhost:8080/Documentname?
	textboxname@dataimport=file:c:\file.doc&
	textboxnameconvertquotes@dataimport=yes
	Request object names: ModifierRequest ModifierStreamRequest
	Project RichText Text ID Box Layout ModifierFileRequestFor
	ModifierFileRequest, the member contents are used to set the file
	path or send the XML itself. com.quark.qxpsm.QRequestContext
	rc = new com.quark.qxpsm.QRequestContext();
	if(!this.DocumentSettings1.documentName.Text.Equals(""))
	rc.documentName =
	this.DocumentSettings1.documentName.Text; // STEP 2
	(SPECIFIC TO REQUESTS):Create the data import // request and
	embed it in request context ModifierRequest request = new
	ModifierRequest(); Project requestContents = new Project();
	Content boxContent1 = new Content(); Box box1 = new Box();
	box1.UID = txtBox1; box1.content = boxContent1; Layout
	layout1 = new Layout(); layout1.name = layoutText;
Evernale object model	if(!this.content1.Text.Equals("")) { boxContent1.value =
Example, object model	this.content1.Text; Text text1 = new Text(); text1.font =
	this.fontname1.Text; box1.text = text1;
	if(this.includestylesheets1.Checked == false)
	boxContent1.includeStylesheets = "false";
	if(this.convertquotes1.Checked == false)
	boxContent1.convertQuotes = "false"; } else if (null !=
	uplTheFile.PostedFile) { Stream theStream =
	uplTheFile.PostedFile.InputStream; StreamReader reader = new
	StreamReader(theStream); boxContent1.value =
	reader.ReadToEnd(); } layout1.boxes = new Box[]{box1};
	requestContents.layouts = new Layout[]{layout1};
	request.contents = requestContents; rc.request = request; // Create
	the service and call it with QRequestContext object
	RequestService svc = new RequestService();
	com.quark.qxpsm.QContentData qc = svc.processRequest(rc);
	BoxParam XTensions software lets you import only files in the
Notes	1
inotes	document pool. Modifier XTensions software, however, lets you
	import files that are located anywhere on the server computer, at

any accessible network location, or supplied as part of a multipart
HTTP request.

Exporting Job Jackets files during deconstruction

While using the xml namespace to deconstruct a QuarkXPress project, you can specify the jjname parameter in the same request to output the Job Jackets file to the document pool. For example:

http://localhost:8080/xml/project.qxp?jjname=jjfilename.xml You can then use the construct namespace to create new QuarkXPress projects that are based on that Job Jackets file's resources and layout specifications.

→ The jjname parameter exports QuarkXPress project resources and layout specifications to a Job Ticket. Resources defined at the Job Jackets level are not exported to the Job Ticket.

Using XML deconstruct and construct

The xml namespace deconstructs a project according to the Modifier DTD. The construct namespace lets you turn an XML representation of a QuarkXPress project back into a QuarkXPress project.

This means you can deconstruct a project into an XML representation, change the XML in accordance with the Modifier DTD, and then have the server generate an updated version of the QuarkXPress project. You can even create new QuarkXPress projects from scratch using XML.

In addition, you can use the construct namespace to:

- Create a page based on a master page
- Create a project from XML, using a Job Jackets file as the basis for the project
- · Modify text font and style, including OpenType styles
- Apply style sheets and local formatting to text
- Create and populate tables
- Import pictures into picture boxes and specify picture attributes

The DTD used for XML construction and deconstruction is completely Unicode-compliant, making it ideal for use in international publishing. Furthermore, the use of this DTD ensures that the schema of XML output created by Constructor does not change when server preferences change. For more information, see "Modifier DTD (annotated)."

- → Some minor QuarkXPress features are not available through the Modifier DTD. However, this DTD represents the majority of all user-editable aspects of a QuarkXPress project.
- The deconstruct namespace/request no longer exists. If you try to use it in this version of QuarkXPress Server, an error is returned.

Deconstructing a project

The xml namespace returns an XML representation of the target project. To use this namespace, use a URL like the following:

```
http://QXPServer8:8080/xml/project1.qxp
```

When you use the xml namespace, QuarkXPress Server returns an XML file that represents the deconstructed project. This XML file adheres to the Modifier DTD (see "Modifier DTD (annotated)").

An XML file that represents a deconstructed project does not contain all of the information necessary to reconstruct the project. The definitions of the project's resources (such as style sheets, colors, and master page definitions) are stored in a Job Jackets file. For example, you can apply a style sheet to a paragraph by indicating the style sheet's name, like so:

```
<PARAGRAPH PARASTYLE="BodyText">
 <RICHTEXT>The sun has risen.</RICHTEXT>
</PARAGRAPH>
```

The above information is included in the deconstructed project's XML file. The definition of the "BodyText" style sheet, however, is stored in the Job Jackets file.

The URL of a deconstructed Job Jackets file is indicated by the PROJECT@JOBJACKET attribute. If you need access to new colors, style sheets, master pages, or other resources, add them to the Job Jackets file indicated by this URL.

→ Projects can also refer to resources defined with the QuarkXPress Server **Document** Controls submenu (Server/QuarkXPress Server menu). QuarkXPress Server looks for resources first in the Job Jackets file and then in the server-defined resources.

XML

Creates an XML file from a QuarkXPress project. The XML is returned in a fixed format that adheres to the Modifier DTD. You can use the returned XML to create or modify a QuarkXPress document using the construct namespace or modify parameter.

Namespace	xml		
DTD	Modifier DTD		
	box	Returns XML only for the box	
	BOX	with the given ID or name.	
		Returns XML only for the boxes	
	boxes	with the IDs or names supplied	
		as a comma -separated list.	
	XSL	Specifies the path of an XSL file	
		for transforming the returned	
Parameters		XML. Use the file: indicator to	
		specify the path.	
	layout	Specifies the name or number of	
		the layout containing the box	
		to render. The first layout is	
		layout 1. Note that this	
		parameter works only with the	
		box parameter.	

	1	Talla the sum language of the	
		Tells the xml namespace to	
		describe <geometry></geometry>	
		elements using <relposition></relposition>	
	relativegeometry	rather than <position>. This</position>	
	relative geometry	allows an item's position to be	
		defined either in relation to the	
		page or in relation to the entire	
		spread.	
		Use only with the	
		relativegeometry parameter.	
		Tells the xml namespace to	
		describe <geometry></geometry>	
	relativetopage		
		elements using <relposition></relposition>	
		elements in which	
		ORIGIN@RELATIVETO="page"	
		(as opposed to "spread").	
		QuarkXPress Server returns	
		copyfitting information for	
		QuarkCopyDesk articles by	
		default. To retrieve copyfitting	
		information when	
		deconstructing a QuarkXPress	
	copyfitinfo	project, include	
		copyfitinfo=true in the xml	
		1	
		request. For	
		example:http://localhost:8080/x	
		ml/sample.qxp?	
		copyfitinfo=true	
	Refer to the Modifier DTD		
	Sample response: xml version="1.0" encoding="UTF-8"</td		
	standalone="no"?> <project <="" jobjacket="Macintosh</td></tr><tr><th></th><td colspan=3>HD:QuarkXPress DocPool: default job jackets:New Job</td></tr><tr><th></th><td colspan=3>Jacket.xml" jobticket="Default Job Ticket" td=""></project>		
	ľ	·	
	PROJECTNAME="project1.qxp"> <layout mediatype="PRINT"> <id name="Layout 1" uid="1"></id></layout>		
	1		
	<pre><layer "false"="" "fause"<="" keeprunaround="false" locked="false" suppress="" td="" visible=""></layer></pre>		
	SUPPRESS="false" VISIBLE="true"> <id <="" name="Default" td=""></id>		
	UID="-1"/> <rgbcolor <="" blue="231" green="231" td=""></rgbcolor>		
	RED="231"/> <spread> <id uid="1"></id></spread>		
Response	<page master="3" position="</td"><td>"RIGHTOFSPINE"</td></page>	"RIGHTOFSPINE"	
	FORMATTEDNAME="1"> <id uid="1"></id>		
	<box boxtype="CT_TEXT" cc<="" td=""><td>DLOR="None" OPACITY="100%"</td></box>	DLOR="None" OPACITY="100%"	
	SHADE="100%"> <id name="Introduction" uid="5"></id>		
	<geometry i<="" layer="Default" td=""><td>PAGE="1" SHAPE="SH_RECT"></td></geometry>	PAGE="1" SHAPE="SH_RECT">	
	<position> <top>39.06</top></position>	64	
	<left>39.026</left> <f< td=""><td></td></f<>		
	<right>214.611</right>	· ·	
	<suppressoutput>false<td></td></suppressoutput>		
	<runaround type="NONE"></runaround> pre <frame <="" gapcolor="White" gapopacity="100%" td=""/>		
	EDAME CARCOLOR "MATE:1-" C	CADODACITY_"1000%"	

	GAPSHADE="100%"OPACITY="100%" SHADE="100%"		
	STYLE="Solid" WIDTH="0 pt"/> <text> <story></story></text>		
	<pre><copyfit "="" <="" fitamount="0.033" numberofcharacters="6" pre=""></copyfit></pre>		
	NUMBEROFLINES="1" NUMBEROFWORDS="1"		
	STATE="underFit"/> <paragraph parastyle="launch"></paragraph>		
	<pre></pre> <pre><</pre>		
	<pre><box <="" boxtype="CT_PICT" color="None" opacity="100%" pre=""></box></pre>		
	SHADE="100%"> <id name="Sunrise" uid="6"></id>		
	<pre><picture scaleacross="100%" scaledown="100%"></picture></pre>		
	CONTENT> Macintosh HD:QuarkXPress Server		
	Documents:sunrise.tif <geometry< td=""></geometry<>		
	LAYER="Default" PAGE="1" SHAPE="SH_RECT">		
	<pre><position> <top>0</top> <left>0</left></position></pre>		
	<pre><bottom>800</bottom></pre> <pre><bottom>800</bottom></pre> <pre></pre>		
	<pre><suppressoutput>false</suppressoutput></pre>		
	<pre><runaround <="" bottom="0" left="0" pre="" right="0" top="0"></runaround></pre>		
	TYPE="ITEM"/> <frame< td=""></frame<>		
	GAPCOLOR="White" GAPOPACITY="100%"		
	GAPSHADE="100%" OPACITY="100%" SHADE="100%"		
	STYLE="Solid" WIDTH="0"/> <picture></picture>		
<pre>STYLE="SOIID" WIDTH="0"/> <picture></picture> </pre>			
	If the request succeeds, a transaction success message is written to		
	the QuarkXPress Server transaction log file. For example:		
Logs	8/3/2004 17:16:11 — xml/sample.qxp — Type: text/xml — Size:		
	2364 — Client: 127.0.0.1		
	http://localhost:8080/xml/sample.qxp You can also deconstruct		
Example GET URL	QuarkCopyDesk articles. To deconstruct a QuarkCopyDesk article,		
Example GET ORE	use the following: http://localhost:8080/xml/copydesk/abc.qcd		
	Request object name: XMLRequestXMLRequest xmlRequest =		
	new XMLRequest(); QRequestContext context = new		
	QRequestContext();		
	context.setDocumentName("SAMPLE_DOCUMENT.qxp");		
Example, Object Model	context.setDocumentName("SAMPLE_DOCUMEN1.qxp"); context.setResponseAsURL(false);		
	context.setRequest(xmlRequest); QContentData response = new RequestServiceStub().processRequest(context);		
	System.out.println(response.getTextData());		
	System.out.printin(response.getrextData());		

Constructing a project

The construct namespace takes two arguments: The name of the project to be created, and a modify parameter that points to the XML file or string that describes how to create the project. For example:

```
http://QXPServer8:8080/construct/project1.qxp?
modify=file:path to XML file on server
```

http://QXPServer8:8080/construct/project1.qxp?modify=XML string

There is a length limitation of 4096 characters on URLs, so you will probably want to use an XML file rather than an XML string.

→ If you are using QuarkXPress Server Manager, you can send a similar command with a QuarkXPress Server Manager URL or through Web services.

Every project created with the construct namespace must be based on a Job Ticket in a Job Jackets file. Using construct to create a project is roughly equivalent to using the File > New > Project from Ticket command in QuarkXPress.

When you create a project using the construct namespace, you must supply the path to the Job Jackets file that will supply the project's resources. To do so, indicate the URL of the Job Jackets file in the PROJECT@JOBJACKET attribute and the name of the Job Ticket in the PROJECT@JOBTICKET attribute. (<PROJECT> is the root element of the Modifier DTD. For more information, see "Modifier DTD (annotated).")

For example, to create a project from a Job Ticket named "Tall US Brochure Ticket" in a Job Jackets file named "BrochureJJ.xml," use XML like the following:

Construct

The construct namespace lets you create a QuarkXPress project using XML.

Namespace	construct			
DTD	Modifier DTD			
			The string or the path	
			of the XML file that	
	modify	String	describes how to create	
	inodity	Stillig	the project. Use the file:	
			indicator to specify the	
			path.	
Parameters			Indicates the	
			QuarkXPress version	
			format to use. For	
	qxpdocver	8 9	example:http://QXPSer	
			ver8:8080/construct/	
			qxpdoc/project1.qxp?q	
			xpdocver=8	
Example GET URL		http://QXPServer8:8080/construct/ project1.qxp?modify=file:sample.xml		
	xml version="1.0" encoding="UTF-8"? <project< td=""></project<>			
	JOBJACKET="C:\XML\New Job Jacket 3.xml" JOBTICKET="Default			
Example XML	Job Ticket" PROJECTNAME="project1.qxp"> <layout> <id< td=""></id<></layout>			
	NAME="Layout 1"/> <spread> <id uid="1"></id> <page></page></spread>			
	· · ·	<id uid="1"></id>		
Response	A new QuarkXPress project.			
		HTTP Error #404 QuarkXPress Server Error #–43		
		This alert displays if you specify an invalid XML		
Alerts	File not found.	file or request a document that is not available to		
		QuarkXPress Server. For example, this error can		
		occur if an image or text		
		<content> element is</content>	invalid or missing.	

	Bad filename/pathname.	HTTP Error #404 QuarkXPress Server Error #–37 This alert displays if you specify an invalid file name or path.	
	The XML document is not valid or well formed.	HTTP Error #500 This alert displays if the XML you supply is not well-formed or do not adhere to the Modifier DTD.	
	The XML document contains an invalid tag value.	HTTP Error #500 This alert displays if you supply an invalid value in the XML.	
Logs	QuarkXPress Server tran jpeg/construct/table.qxp	a transaction success message is written to the saction log file. For example:8/3/2005 11:27:42 — o — Type: image/jpeg — Size: 31715 — Client: splayed, an error message is written to the	
	QuarkXPress Server error log. The following is a sample of the error log entry:8/10/2005 10:39:07 — Error — Error Code: 10339 — The specified		
Example, object model	file failed to load in the picture box. Request Object Names:XMLRequest ConstructRequest ConstructFileRequest ConstructStreamRequest To construct a new QuarkXPress project by editing an existing document, first deconstruct a QuarkXPress project using code like the following:XMLRequest dcnstrq = new XMLRequest(); rc.request = dcnstrq; Next, alter the project by manipulating the XML. When you're done, pass the modified XML document to ConstructStreamRequest to create a new QuarkXPress project. For example:ConstructStreamRequest cnstrq = new ConstructStreamRequest(); cnstrq.modify = Buffer; // Byte[] for the		
Notes	The construct namespace takes two arguments: The name of the project to be created and a modify parameter with the string or the path of the XML file that describes how to create the project: http://localhost:8080/qxpdoc/construct/project1.qxp? modify=file:path to XML file on server http://localhost:8080/qxpdoc/construct/project1.qxp? modify= <xml-string></xml-string>		

Construct and modify

The modify parameter lets you modify existing projects. For example:

http://QXPServer8:8080/project1.qxp? modify=file:path to XML file on server

http://QXPServer8:8080/project1.qxp?modify=XML string

It's important to understand that although the construct namespace uses the same DTD that you use when you modify an existing project, the construct namespace uses it differently. When you use the construct namespace, the XML you pass simply contains a description of everything in the document you want to create — much as an HTML file describes a page you want to display in a browser. There is no need to use a command and create elements such as ADDCELLS, OPERATION, and MOVERIGHT; you simply describe each item in the layout with elements such as <BOX> and <TABLE>, and specify each item's position with the <POSITION> element type. When you use the modify attribute without the construct namespace, however, the XML you pass must contain commands that show how you want QuarkXPress Server to modify the project.

For more information, see "Modifier DTD (annotated)."

Working with pages and spreads

The root element of a deconstructed QuarkXPress project is <PROJECT>. Within each <PROJECT> element are one or more <LAYOUT> elements. Each layout contains one or more <SPREAD> elements, and each <SPREAD> contains one or more <PAGE> elements. Each layout, spread, and page has a unique name, indicated by its <ID> element.

Each layout can have a unique name, indicated by its <ID> element's NAME attribute. You can use a layout's name when referring to that layout in a non-construct call that uses the MODIFY attribute. The ID@NAME attribute is ignored for <SPREAD> and <PAGE> elements, but you can refer to them numerically with their <ID> element's UID attribute, with "1" being the first, "2" being the second, and so forth.

➡ With most element types, it is best to assign an ID@NAME value to an element and use that to refer to the element, because ID@UID values are defined by QuarkXPress Server and thus ignored for construct calls. <PAGE> and <SPREAD> are exceptions to this rule.

Each page has a POSITION attribute that indicates which side of the spine it is on. (In single-sided layouts, every page is given a POSITION of RIGHTOFSPINE).

You can assign items to a page using the GEOMETRY element, which is a child of the BOX and TABLE elements. For example:

```
<TOP>90</TOP>
           <LEFT>95</LEFT>
           <BOTTOM>190</BOTTOM>
           <RIGHT>195</RIGHT>
       </POSTTION>
    </GEOMETRY>
</BOX>
```

Master pages are stored in a deconstructed project's Job Jackets file. To create a page from this master page, insert a MASTER attribute into the PAGE element and indicate the number of the target master page. Master page numbering is as follows:

```
1 = blank single page
2 = blank facing-page
```

3 = the first user-defined master page in the Job Jackets file (by default, the master page named "A-Master A")

For example, to create a master page based on the first user-defined master page in the Job Jackets file, you could use XML like the following:

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<PROJECT JOBJACKET=" file://brochures/BrochureJJ.xml"</pre>
        JOBTICKET="Tall US Brochure Ticket"
        PROJECTNAME="project1.qxp">
    <LAYOUT>
      <ID NAME="Layout 1"/>
       <SPREAD>
           <TD UTD="1" />
           <PAGE MASTER="3" POSITION="LEFTOFSPINE">
              <ID UID="2" />
           </PAGE>
```

Note that each page has a POSITION attribute that indicates where that page falls with regard to the spine.

Working with layouts

QuarkXPress Server lets you create layouts from scratch in several ways:

- You can create a layout using the default layout properties, as specified in the server Job Jackets file.
- You can create a layout using a layout specification in a template's Job Jackets structure.
- You can create a layout using a specific height and width.

To create a layout using the server Job Jackets file's default settings, use XML like the following:

```
<PROJECT>
 <LAYOUT OPERATION="CREATE">
   <ID NAME="New Layout"/>
   <SPREAD>
     <ID UID="1"/>
     <BOX>
       <ID NAME="Box5"/>
       <TEXT>
         <STORY>
           <PARAGRAPH PARASTYLE="Normal">
             <RICHTEXT>Scrollable Layout
           </PARAGRAPH>
```

```
</STORY>
</TEXT>
</BOX>
</SPREAD>
</LAYOUT>
</PROJECT>
```

To create a layout using a layout specification in the template's Job Jackets structure, use XML like the following:

```
<PROJECT>
 <LAYOUT OPERATION="CREATE"</pre>
LAYOUTSPECIFICATION="NewLayoutSpec"
    <ID NAME="New Layout"/>
    <SPREAD>
     <ID UID="1"/>
      <BOX>
       <ID NAME="Box5"/>
        <TEXT>
         <STORY>
            <PARAGRAPH PARASTYLE="Normal">
              <RICHTEXT>Scrollable Layout
            </PARAGRAPH>
          </STORY>
        </TEXT>
      </BOX>
   </SPREAD>
  </LAYOUT>
</PROJECT>
```

To create a layout using a specific height and width, use XML like the following:

```
<PROJECT>
  <LAYOUT OPERATION="CREATE"</pre>
HEIGHT="900" WIDTH="500"
    <ID NAME="New Layout"/>
    <SPREAD>
      <ID UID="1"/>
      <BOX>
        <ID NAME="Box5"/>
        <TEXT>
          <STORY>
            <PARAGRAPH PARASTYLE="Normal">
              <RICHTEXT>Scrollable Layout</RICHTEXT>
            </PARAGRAPH>
          </story>
        </TEXT>
      </BOX>
   </SPREAD>
  </TAYOUT>
</PROJECT>
```

To create a layout and flow content into it in one go, without a spread/page context, use XML like the following:

. . .

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```
</LIST>
       <!- Insert a page break ->
       <PAGEBREAK></PAGEBREAK>
    </STORY>
   </TEXT>
   </BOX>
  <!- Add a heading ->
  <INLINEBOX>
   <RICHTEXT>This is the Heading/RICHTEXT>
  </TNITNEBOX>
  <!- Add text ->
   <INLINEBOX>
   <PARAGRAPH INDENTLEVEL="2" PARASTYLE="MyStyle">
    <RICHTEXT>This is the text</RICHTEXT>
   </PARAGRAPH>
  </INLINEBOX>
  <!- Import a picture ->
  <INLINEBOX>
   <CONTENT>file:MyFile.jpg</CONTENT>
  </INLINEBOX>
  <!- Add a table ->
  <INLINETABLE>
   <TBODY>
    <TROW>
     <ENTRY>Column1</ENTRY>
     <ENTRY>Column2</ENTRY>
    </TROW>
   </TBODY>
   </INLINETABLE>
</LAYOUT>
</PROJECT>
```

When QuarkXPress Server creates a new layout this way, it adds an automatic text box. If you want to flow content into this automatic text box, address it by any name you like, and QuarkXPress Server will assign that name to the automatic text box on the first page.

Working with layers

To create a layer in XML, use the LAYER element. For example:

```
<LAYER KEEPRUNAROUND="true" LOCKED="false"</pre>
      SUPPRESS="false" VISIBLE="true">
    <ID NAME="Layer 1" />
</LAYER>
```

The RGBCOLOR element defines the layer's color as displayed in the Layers palette.

You can assign items to a layer using the GEOMETRY element, which is a child of the BOX and TABLE elements. For example:

```
BOX BOXTYPE="CT TEXT" COLOR="White">
      <ID NAME="Main Layer" />
   <GEOMETRY
LAYER="Default"
PAGE="1" SHAPE="SH RECT">
      <POSITION>
           <TOP>90</TOP>
           <LEFT>95</LEFT>
```

Working with boxes

To add text and pictures to a project, you must add text boxes and picture boxes to the project's <code><SPREAD></code> element. Both are represented by <code><BOX></code> elements, but text boxes have a <code>BOXTYPE</code> attribute of <code>CT_TEXT</code>, and picture boxes have a <code>BOXTYPE</code> attribute of <code>CT_PICT</code>. You can read about how <code><BOX></code> elements are put together in the Modifier DTD, but for purposes of illustration, the sample XML below describes a spread that contains a text box and a picture box.

```
<SPREAD>
   <ID UID="1" />
  <!- TEXT BOX ->
  <BOX BOXTYPE="CT TEXT" COLOR="White">
      <ID NAME="Headline Box" />
      <GEOMETRY LAYER="Default" PAGE="1" SHAPE="SH RECT">
         <POSITION>
             <TOP>200</TOP>
             <LEFT>80</LEFT>
             <BOTTOM>450</BOTTOM>
             <RIGHT>475</RIGHT>
         </POSITION>
      </GEOMETRY>
       <TEXT>
          <STORY>
              <PARAGRAPH PARASTYLE="Normal">
                <RICHTEXT>This is text in a box.
             </PARAGRAPH>
         </STORY>
      </TEXT>
  </BOX>
  <!- PICTURE BOX ->
   <BOX BOXTYPE="CT PICT">
      <ID NAME="Main Story Photo" />
      <GEOMETRY LAYER="Default" PAGE="1" SHAPE="SH RECT">
         <POSITION>
             <TOP>90</TOP>
              <LEFT>95</LEFT>
             <BOTTOM>190</BOTTOM>
             <RIGHT>195</RIGHT>
         </POSITION>
      </GEOMETRY>
       <PICTURE ANGLE="0°" FLIPHORIZONTAL="false"
         FLIPVERTICAL="false" FULLRES="false" MASK="None"
         OFFSETACROSS="0 OFFSETDOWN="0" OPACITY="100%"
         SCALEACROSS="100%" SCALEDOWN="100%" SHADE="100%"
         SKEW="0°" SUPRESSPICT="false"/>
      <CONTENT>Macintosh HD:DocPool:flower1.jpg</CONTENT>
  </BOX>
</SPREAD>
```

This example will work for a construct request. For a modify request, add the attribute value <code>OPERATION="CREATE"</code> in the <code>BOX</code> element.

All BOX elements can contain a GEOMETRY element that indicates the position and size of the box, a FRAME element that describes the box's frame (if any), and a

SHADOW element that describes the box's drop shadow. Additional BOX elements are described in the following sections.

The z-order (stacking order) of boxes in the layout is determined by the order of the <BOX> elements in the XML, from rearmost to frontmost.

Fitting a box to text or a picture

The <FIT> element type lets you automatically adjust the size of a box to fit the text or picture in that box.

The default behaivior is to not fix a box to its content. To use this feature, you must supply <MAX> and <MIN> elements. Each <MAX> or <MIN> element lets you specify a maximum or minimum size for the box, a maximum or minimum location for the resized box, or a maximum or minimum scale percentage for the box. Note that you can use different types of <MAX> and <MIN> elements in a <FIT> element, but you can use only one <MAX> element and one <MIN> element per <FIT> element.

The FIT@POINT attribute lets you indicate the direction in which the box should grow or shrink. The available options are TOPLEFT, BOTTOMLEFT, TOPRIGHT, and BOTTOMRIGHT.

The FIT@AVOIDBOXESBY attribute lets you specify the distance between the POINT side or corner of a resized box and any other items around it. A box will expand only until it is this distance from an adjacent item.

The FIT@PROPORTIONAL attribute lets you specify whether the resized box should have the same aspect ratio as the original box.

For example:

```
<BOX>
   <ID UID="5"/>
   <GEOMETRY>
      <POSITION>
         <TOP>224.001</TOP>
         <LEFT>110.003</LEFT>
         <BOTTOM>381</BOTTOM>
         <RIGHT>253.253</RIGHT>
      </POSITION>
      <FIT POINT="BOTTOMLEFT" PROPORTIONAL="true">
        <LOCATION X="320" Y="560"/>
<MAX>
<SIZE HEIGHT="100"
   </GEOMETRY>
<BOX/>
```

- To use this feature, you must have FitBoxToContent XTensions software loaded.
- → For pictures, <FIT> is equivalent to PICTURE@FIT="FITBOXTOPICTURE". <MAX> and <MIN> have no effect.

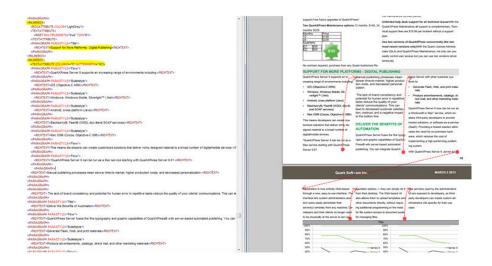
Using inline boxes

The Inline Boxes feature makes it easy to create an anchored box. Rather than having to describe every aspect of a box and then reference that box from an <ANCHOREDBOXREF> or <CALLOUTANCHOR> element, you can simply specify the content for a box inline, like so:

```
<PROJECT>
 <LAYOUT>
    <ID UID="123"/>
    <BOX COLOR="Cyan" OPACITY="50">
     <ID UID="456"/>
     <TEXT>
        <STORY>
          <RICHTEXT>Test before an anchored text box.</RICHTEXT>
          <INLINEBOX>
            <TEXTATTRIBUTE COLUMNS="2" GUTTERWIDTH="10">
             <INSET ALLEDGES="5"/>
           </TEXTATTRIBUTE>
           <CONTENT>file:example.docx</CONTENT>
          </TNI_TNEBOX>
          <RICHTEXT>Test between anchored text boxes.
          <INLINEBOX>
            <CONTENT>
              <PARAGRAPH PARASTYLE="Normal">
                <RICHTEXT>Text in the second anchored
box.</RICHTEXT>
              </PARAGRAPH>
             <RICHTEXT>More text in the second anchored
box.</RICHTEXT>
           </CONTENT>
          </INLINEBOX>
          <RICHTEXT>Test between anchored boxes.
          <INLINEBOX WIDTH="50" SCALEUP="false">
           <SHADOW ANGLE="166" BLUR="6" COLOR="Yellow"</pre>
DISTANCE="6"
             INHERITOPACITY="true" MULTIPLYSHADOW="true"
OPACITY="40%"
             SCALE="100% "SHADE="62%" SKEW="0"/>
           <CONTENT>file:example.jpg</CONTENT>
         </INLINEBOX>
          <RICHTEXT>Text after an anchored picture
box.</RICHTEXT>
       </STORY>
     </TEXT>
    </BOX>
  </LAYOUT>
</PROJECT>
```

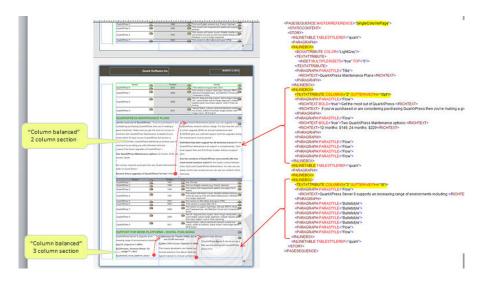
Because an <INLINEBOX> element's content comes in the form of a <CONTENT> element, you can fill such an anchored box with Modifier-formatted text, with text from a text file, or with a picture from a picture file.

If the volume of text (represented by PARAGRAPH) is potentially large, the INLINEBOX automatically continues to flow the remaining text across pages.



Automatic text flow example

The INLINEBOX element allows to have autommatic column balanced sections. This allows you to have the text flow and bottom-align across multiple columns on a page automatically.



Automatic column balancing

The INLINEBOX@WIDTH attribute lets you specify the width of the anchored box as a percentage of its parent column or box. If you fill an anchored box with so much text that it expands to the height of its parent box, the text is adjusted to fit in the box.

The INLINEBOX@SCALEUP attribute lets you control sizing for picture boxes.

The ${\tt childSHADOW}$ element lets you specify drop shadow effects.

A child BOXATTRIBUTE element lets you control the formatting of the boxes. If you're creating an inline text box, a child TEXTATTRIBUTE element lets you control the formatting of the boxes.

A child ${\tt INTERACTIVITY}$ element facilitates the application of interactivity on boxes. This allows for the deconstruct and modifiability of App Studio Interactivities, as shown below:

```
<PROJECT>
  <LAYOUT>
```

```
<ID NAME="Layout 1"/>
    <PAGESEQUENCE MASTERREFERENCE="A-Master-A">
      <STORY BOXNAME="Flow">
        <INLINEBOX>
          <!-Preview image->
          <CONTENT>file:Images/2pdf.PNG</CONTENT>
          <INTERACTIVITY AUTHORXTID="1131430225" NAME="Button 1"</pre>
                        OWNERXTID="1129333841" TYPE="Button">
            <Settings InitiallyHidden="False">
              <settings>
                <actions>
                  <action>
                    <type>openfile</type>
                    <name/>
                    <sourcesettings>
                      <sourcetype>1</sourcetype>
<sourcepath>PDF/EconomicResearch.pdf</sourcepath>
                    </sourcesettings>
                  </action>
                <actions>
              </settings>
            </Settings>
            <DATAPROVIDER DATAPROVIDERXTID="1131430225"/>
          </INTERACTIVITY>
        </TNITNEBOX>
      </STORY>
    </PAGESEQUENCE>
  </LAYOUT>
</PROJECT>
```

This applies button interactivity and associates an Open File action. The generated App Studio issue, when previewed on a device, would display the "EconomicResearch.pdf". The Open File action can open media files as well.

The child BOXATTRIBUTE lets you specify an angle of rotation of the box through the use of the <ANGLE> element, like so:

This would rotate the box by 30 degrees.

For more information, see "INLINEBOX (Modifier DTD)," BOXATTRIBUTE (Modifier DTD)," and "TEXTATTRIBUTE (Modifier DTD)."

■ If you deconstruct an anchored box that was created with an <INLINEBOX> element, the resulting XML describes the box as a <BOX> element, not an <INLINEBOX> element.

Working with groups

To add boxes to a group, create a <GROUP> element and then insert <BOXREF> elements that refer to the boxes you want in the group. For example, the group described below includes the two boxes described above it:

```
<GROUP>
    <ID NAME="MainStoryGroup" UID="300"/>
    <BOXREF NAME="MainStoryText" UID="217"/>
    <BOXREF NAME="MainStoryPhoto" UID="218"/>
</GROUP>
You can nest one group within another by adding a <BOXREF> that refers to the
child group, like so:
<GROUP>
    <ID NAME="MainStoryGroup" UID="300"/>
    <BOXREF NAME="MainStoryText" UID="217"/>
    <BOXREF NAME="MainStoryPhoto" UID="218"/>
</GROUP>
<BOX BOXTYPE="CT PICT">
    <ID NAME="Masthead" UID="001"/>
</BOX>
<GROUP>
    <ID NAME="MainStoryPage" UID="218"/>
    <BOXREF NAME="Masthead" UID="001"/>
<BOXREF NAME="MainStoryGroup" UID="300"/>
</GROUP>
To anchor a group in a text box, use XML like the following. Note that you must set
BOX@ANCHOREDGROUPMEMBER="true" for all boxes in the group, and set
GROUP@ANCHOREDIN for the anchored group.
<BOX BOXTYPE="CT TEXT" COLOR="White"</pre>
ANCHOREDGROUPMEMBER="true"
    <ID NAME="MainStoryText" UID="217"/>
</BOX>
<BOX BOXTYPE="CT PICT"</pre>
ANCHOREDGROUPMEMBER="true"
    <ID NAME="MainStoryPhoto" UID="218"/>
</BOX>
<GROUP
ANCHOREDIN="MainStoryText"
    <ID NAME="MainStoryGroup" UID="300"/>
    <BOXREF NAME="MainStoryText" UID="217"/>
    <BOXREF NAME="MainStoryPhoto" UID="218"/>
</GROUP>
<BOX BOXTYPE="CT TEXT" COLOR="White">
    <ID NAME="MainStoryText" UID="217"/>
    <TEXT>
        <STORY>
            <PARAGRAPH>
<ANCHOREDBOXREF OFFSET="0">MainStoryGroup
</ANCHOREDBOXREF>
            </PARAGRAPH>
        </STORY>
    </TEXT>
</BOX>
```

→ The order of the <BOXREF> elements in a <GROUP> indicates the order in which the boxes were selected prior to grouping. The z-order of boxes in the layout is determined by the order of the <BOX> elements in the XML, from rearmost to frontmost.

Working with pictures

The <PICTURE> element supports a variety of features, including the ability to specify runaround, opacity, and drop shadow characteristics. For more information, see the Modifier schema.

```
<PROJECT>
  <LAYOUT>
    <ID NAME="Layout 1"/>
    <SPREAD>
      <ID UID="1"/>
      <BOX COLOR="Magenta" SHADE="50%" OPACITY="100%">
        <ID NAME="pict1"/>
        <PICTURE MASK="Test Alpha1"/>
        <FRAME STYLE="Triple" WIDTH ="5" COLOR="Cyan"</pre>
SHADE="100%"
         OPACITY="100%" GAPCOLOR="Yellow"
         GAPSHADE="80%" GAPOPACITY="100%"/>
       <CONTENT UID="0">image.jpg</CONTENT>
      </BOX>
      <BOX>
        <ID NAME="pict2"/>
       <PICTURE SUPRESSPICT="true" FULLRES="true"
PICCOLOR="Cyan"
         SHADE="90" OPACITY="90"/>
        <SHADOW COLOR="Cyan" SHADE="90" ANGLE="130" OPACITY="100"</pre>
         DISTANCE="5" SKEW="10"
          SCALE="90" BLUR="3"/>
        <CONTENT UID="0">image.jpg</CONTENT>
      </BOX>
      <BOX>
        <ID NAME="pict3"/>
        <GEOMETRY>
           <RUNAROUND TYPE="NONWHITEAREAS" OUTSET="10" NOISE="5"</pre>
             SMOOTHNESS="5"
              THRESHOLD="10" INVERT="true" OUTSIDEONLY="true"
              RESTRICTTOBOX="true"/>
        </GEOMETRY>
        </BOX>
        <BOX>
          <ID NAME="pict4"/>
          <PICTURE FIT="FITPICTURETOBOX" SCALEACROSS="40"
            SCALEDOWN="50" FLIPVERTICAL="true"
            FLIPHORIZONTAL="false" ANGLE="40" SKEW="20"/>
        <CONTENT UID="0">image.jpg</CONTENT>
      </BOX>
    </SPREAD>
  </LAYOUT>
```

If you know the UID attribute of a box, you can insert a picture into that box without having to specify where the <BOX> element is. For example:

Content IDs are unique across layouts.

Working with text

Every <BOX> element for text contains a <TEXT> element, and every <TEXT> element contains a <STORY> element. A <STORY> element can contain <PARAGRAPH> elements, each of which contains <RICHTEXT> elements. A <STORY> element can also simply contain <RICHTEXT> elements.

A text <BOX> element can also contain a <CONTENT> element that indicates the origin of the text in that box.

A text <BOX> element in a deconstructed project can also contain <PLACEHOLDER> elements, which allow XML Import XTensions software to insert text from a different XML source.

→ <PLACEHOLDER> elements are ignored by the construct namespace and the modify parameter; placeholders must be inserted in QuarkXPress using XML Import XTensions software.

If you know the UID attribute of a box or story, you can insert text into that box or story without having to specify where the <BOX> or <STORY> element is. For example:

```
<PROJECT>
 <BOX>
   <ID UID="4"/>
   <STORY>
     <RICHTEXT MERGE="false" FONT="20">New text</RICHTEXT>
 </BOX>
</PROJECT>
<PROJECT>
 <STORY UID="0">
   <RICHTEXT MERGE="false" FONT="20">New text</RICHTEXT>
 </STORY>
</PROJECT>
```

→ Story IDs are unique across layouts.

Applying style sheets

Like other resources, style sheets are defined in a deconstructed project's Job Jackets file. To apply a paragraph style sheet to text, use the PARASTYLE attribute of the <PARAGRAPH> element. For example, to apply the paragraph style sheet named "BodyText" to a paragraph, use XML like the following:

```
<PARAGRAPH PARASTYLE="BodyText">
   <RICHTEXT MERGE="true">The sun has risen.
</PARAGRAPH>
```

To apply a character style sheet to text, use the CHARSTYLE attribute of the <RICHTEXT> element. For example, to apply the character style sheet named "Emphasis" to a word, use XML like the following:

```
<PARAGRAPH PARASTYLE="BodyText">
   <RICHTEXT>The </RICHTEXT>
   <RICHTEXT CHARSTYLE="Emphasis">sun</RICHTEXT>
   <RICHTEXT> has risen.
</PARAGRAPH>
```

Applying local formatting

To apply local formatting to text, use the attributes of the <RICHTEXT> element. For example:

To apply paragraph formatting, use a <FORMAT> element. For example:

The MERGE attribute lets you control whether formatting from one <RICHTEXT> or <PARAGRAPH> element is carried forward to the next. For example, the following XML would result in "has risen" being italicized:

However, this XML would result in "has risen" being plain:

The default value for <MERGE> is "false."

To combine local formatting with style sheets, simply add attributes to the <RICHTEXT> elements within a <PARAGRAPH> element. For example:

Applying paragraph/text shading

To learn more about shading (paragraph, text) functionality, refer to the "Working with text shading" section of the *QuarkXPress 2017 User Guide* found here: http://files.quark.com/download/documentation/QuarkXPress/2017/English/QXP-2017-User-Guide-EN.pdf. The newly introduced Modifier XML markup maps/corresponds to the QuarkXPress 2017 functionality.

There are several ways to apply paragraph/text shading in QuarkXPress Server:

Referencing a pre-defined text shading style in a paragraph/character style sheet.
 For example, the "BodyText" paragraph style references the pre-defined
 "BodyTextVariations" text shading style:

```
<PARAGRAPH PARASTYLE="BodyText">
```

```
</PARAGRAPH>
```

• Specify a pre-defined text shading style using the SHADINGSTYLENAME attribute of the <RICHTEXT> element.

```
<PARAGRAPH>
  <RICHTEXT SHADINGSTYLENAME="BodyTextVariations"</pre>/RICHTEXT>
</PARAGRAPH>
```

• Specify a pre-defined text shading style using the NAME attribute of the <SHADINGSTYLE> element, within the PARAGRAPH/FORMAT nodes.

```
<PARAGRAPH PARASTYLE="BodyText">
 <FORMAT>
   <SHADINGSTYLE NAME="BodyTextVariations"/>
 <RICHTEXT>BODY TEXT AND BODY TEXT VARIATIONS</RICHTEXT>
</PARAGRAPH>
```

• Specify attributes in the <SHADINGSTYLE> element within the PARAGRAPH/FORMAT element for adhoc styling.

```
<PARAGRAPH PARASTYLE="BodyText">
  <FORMAT>
   <SHADINGSTYLE COLOR="Yellow"</pre>
                  Shade="30%"
                  OPACITY="20%"
                  LENGTH="COLUMN"
                  CLIPTOBOX="true"
                  RIGHTPADDING="4pt"
                  BOTTOMPADDING="2pt"
                  LEFTPADDING="2pt"
                  TOPPADDING="1pt"
  </FORMAT>
  <RICHTEXT>BODY TEXT AND BODY TEXT VARIATIONS</RICHTEXT>
</PARAGRAPH>
```

Formatting across paragraph boundaries

You can use two methods to describe a run of formatting that crosses a paragraph boundary. The first is to simply close the first <PARAGRAPH> element and then open a new one. For example:

```
<PARAGRAPH>
   <RICHTEXT SIZE="10">The sun has risen.</RICHTEXT>
</PARAGRAPH>
<PARAGRAPH>
   <RICHTEXT SIZE="10">The sun has set.
</PARAGRAPH>
```

The second is to use a

entity to create the paragraph break. For example:

```
<PARAGRAPH>
```

Retrieving copyfitting information

In deconstructed projects, a
 BOX> element can contain a <

LINKEDBOX> element. The <

LINKEDBOX> element indicates the point where text has overflowed the current box and identifies the box where the text continues. The <

LINKEDBOX> element also contains attributes that indicate where in the text the break occurs.

In a <code><STORY></code> element, the <code><OVERMATTER></code> element indicates where the current box overflows when there is no subsequent box for text to flow into. A <code><STORY></code> element also contains a <code><COPYFIT></code> element indicating how many words, characters, and lines should be allowed to fit in that box and whether the text currently fits in the box, is too short, or is too long. This information can be useful for on-the-fly copyfitting.

- The elements described in this section occur only in deconstructed project XML generated by the xml namespace. Do not use these elements when using the construct namespace.
- → QuarkXPress Server returns copyfitting information for QuarkCopyDesk articles by default. To retrieve copyfitting information when deconstructing a QuarkXPress project, include copyfitinfo=true in the xml request.

Working with tables

To construct tables in XML, use a structure like the following:

```
<TABLE COLUMNS="2" ROWS="2">
 <ID NAME="MyTable"/>
  <GEOMETRY PAGE="1">
   <POSITION>
     <TOP>100</TOP>
     <LEFT>100</LEFT>
     <BOTTOM>600</BOTTOM>
     <RIGHT>400</RIGHT>
   </POSITION>
  </GEOMETRY>
    <COLSPEC>
      <COLUMN AUTOFIT="false" COLUMNCOUNT="1"
COLUMNWIDTH="134.667">
        <GRIDLINE COLOR="Black" GAPCOLOR="none" OPACITY="100%"</pre>
         SHADE="100%" STYLE="Solid" TYPE="LEFT" WIDTH="1"/>
        <GRIDLINE COLOR="Black" GAPCOLOR="none" OPACITY="100%"</pre>
         SHADE="100%" STYLE="Solid" TYPE="RIGHT" WIDTH="1"/>
      </COLUMN>
      <COLUMN AUTOFIT="false" COLUMNCOUNT="2"
COLUMNWIDTH="134.667">
       <GRIDLINE COLOR="Black" GAPCOLOR="none" OPACITY="100%"</pre>
          SHADE="100%" STYLE="Solid" WIDTH="1"/>
      </COLUMN>
      <COLUMN AUTOFIT="false" COLUMNCOUNT="3"
COLUMNWIDTH="134.667">
        <GRIDLINE COLOR="Black" GAPCOLOR="none" OPACITY="100%"</pre>
         SHADE="100%" STYLE="Solid" WIDTH="1"/>
       </COLUMN>
     </COLSPEC>
    <ROW ROWCOUNT="1">
```

```
<CELL COLUMNCOUNT ="1">
     . . .
    </CELL>
    <CELL COLUMNCOUNT ="2">
    </CELL>
  </ROW>
</TABLE>
```

Note that the position of each row and column within the table is indicated by the ROWCOUNT and COLUMNCOUNT attributes, respectively. <CELL> elements can describe text cells or picture cells; see the following sections for details.

To specify horizontal and vertical lines in a table, use XML like the following:

```
<TABLE>
 <GRID TYPE="ALLGRID">
   <LINE COLOR="Black" GAPCOLOR="none"</pre>
     OPACITY="100%" SHADE="100%"
     STYLE="Solid" WIDTH="0"/>
 </GRID>
</TABLE>
```

Creating tables

To create a new table, use the following parameters in the Modifier DTD:

- "SPREAD"
- "TABLE"
- "COLSPEC"
- "COLUMN"
- "ROW"
- "CELL"

The following XML shows how some of these parameters work.

```
<PROJECT>
  <LAYOUT>
   <ID UID="Layout 1"/>
    <SPREAD>
      <ID UID="1"/>
      <TABLE OPERATION="CREATE" ROWS="5" COLUMNS="3">
       <ID NAME="STATS"/>
        <GEOMETRY PAGE="1"/>
          <POSITION>
            <TOP>5</TOP>
            <LEFT>5</LEFT>
            <BOTTOM>30</BOTTOM>
            <RIGHT>30</RIGHT>
         </POSITION>
        </GEOMETRY>
        <FRAME WIDTH="1" COLOR="Gray"/>
      </TABLE>
    </SPREAD>
  </LAYOUT>
</PROJECT>
```

Rather than creating tables manually, you can use the Inline Tables feature, which is much easier to use. For more information see "Using inline tables."

Response A preview of the QuarkXPress proje	
Response	table created in the specified position.
	If the request succeeds, a transaction success
	message is written to the QuarkXPress Server
Logs	transaction log file. For example: 4/10/2007
	17:54:37 — tab.qxp — Type: image/jpeg — Size:
	9049 — Client: 127.0.0.1
	When QuarkXPress Server is running on
	Windows, use a URL like the
	following:http://localhost:8080/sample.qxp?mod
	ify= file:C:\createTable.xml When QuarkXPress
	Server is running on Mac OS, use a URL like the
	following:http://localhost:8080/sample.qxp?mod
	ify= file:MacHD:xml:createTable.xml You can
	also supply a string that consists of valid XML
	commands. For example:
Example GET URL	http://localhost:8080/sample.qxp?modify=
-	<layout><id uid="Layout1"></id><spread><id< td=""></id<></spread></layout>
	UID="1"/> <table <="" operation="CREATE" td=""></table>
	ROWS="5" COLUMNS="3"> <id< td=""></id<>
	NAME="STATS"/> <geometry< td=""></geometry<>
	PAGE="1"/> <position></position>
	<top>5</top> <left>5</left> <bottom>30<!--</td--></bottom>
	BOTTOM>
	<right>30</right>
	Y>

SPREAD>| | To add a new table to an existing spread, use |
	code like the following:Spread spread = new
	Spread(); Table table = new Table(); table.name =
	"textbox1"; Geometry geometry = new
	Geometry(); Position position = new Position();
	position.top = "110"; position.left = "89";
	position.bottom = "220"; position.right = "300";
	geometry.position = position; geometry.shape =
Example, object model	"SH_RECT"; geometry.page = "1"; geometry.layer
Example, object model	= "Default"; table.geometry = geometry;
	table.rows = "2"; table.columns = "4";
table.maintainGeometry = "true";	
table.operation = "CREATE"; spread.tables = new	
Table []{table};Use the following object	
	hierarchy:ModifierRequest < Project < Layout <
	Spread < TableTo delete a table, provide the
table's name or ID and set the operation	
	attribute to "DELETE".

Adding text and picture cells to tables

To add a text cell, use XML like the following:

<CELL BOXTYPE="CT TEXT" COLUMNCOUNT ="1"> <TEXT>

```
<STORY>
         <RICHTEXT>Text goes here.
      </STORY>
   </TEXT>
</CELL>
```

Note that the <TEXT> element must always contain a <STORY> element. A <STORY> element can contain <PARAGRAPH> elements or simply <RICHTEXT> elements.

To add a picture cell, use XML like the following:

```
<CELL BOXTYPE="CT PICT" COLUMNCOUNT ="1">
   <CONTENT>MacintoshHD:DocPool:flower1.jpg</CONTENT>
   <PICTURE FIT="CENTERPICTURE" />
</CELL>
```

Merging and splitting table cells

To merge table cells, use XML like the following:

```
<TABLE>
 <ID NAME="table1"/>
  <ROW ROWCOUNT="1" MERGEROWSPAN="1" >
   <CELL COLCOUNT="1"><TEXT>...</TEXT></CELL>
   <CELL COLCOUNT="2"><TEXT>...</TEXT></CELL>
 <ROW ROWCOUNT="2">
   <CELL COLCOUNT="1"><TEXT>...</TEXT></CELL>
   <CELL COLCOUNT="2"><TEXT>...</TEXT></CELL>
 <ROW ROWCOUNT="3">
   <CELL COLCOUNT="1"><TEXT>...</TEXT></CELL>
   <CELL COLCOUNT="2"><TEXT>...</TEXT></CELL>
 </ROW>
</TABLE>
```

To split table cells, use XML like the following:

```
<TABLE>
 <ID NAME="table1"/>
 <ROW AUTOFIT="false" ROWCOUNT="5" ROWHEIGHT="60.9">
   <CELL BOXTYPE="CT TEXT" COLUMNCOUNT="2" SPLIT="true"/>
 </ROW>
</TABLE>
```

Breaking a table across pages

To break a table across pages, use XML like the following:

```
<SPREAD>
 <ID UID="1"/>
 <PAGE MASTER="A-Master A" POSITION="RIGHTOFSPINE">
   <ID UID="1"/>
 <TABLE COLOR="none" COLUMNS="2" MAINTAINGEOMETRY="false"
   ROWS="3" AUTOFIT="rows">
   <ID NAME="Table1"/>
   <TABLEBREAK BREAKHEIGHT="140.251" MAINTAINLINK="true">
       <ROW ROWCOUNT="1" ROWHEIGHT="68.625">
       </ROW>
     </HEADER>
   </TABLEBREAK>
   <ROW ROWCOUNT="1" ROWHEIGHT="68.625">
   </ROW>
```

```
<ROW ROWCOUNT="2" ROWHEIGHT="68.625">
...
</ROW>
<FRAME .../>
<GEOMETRY LAYER="Default" PAGE="1" SHAPE="SH_RECT">
...
</GEOMETRY>
<COLSPEC>
...
</COLSPEC>
</TABLE>
</SPREAD>
```

Using inline tables

The Inline Tables feature makes it easy to create an anchored table. Rather than having to specify every attribute of a table, you can simply specify the content for a table as a series of <TROW> and <ENTRY> elements in an <INLINETABLE> element, like so:

```
<STORY>
  <INLINETABLE>
   <THEAD>
     <TROW>
       <ENTRY>Year</ENTRY>
       <ENTRY>2012</ENTRY>
        <ENTRY>2013</ENTRY>
       <ENTRY>2014</ENTRY>
        <ENTRY>2015</ENTRY>
     </TROW>
    </THEAD>
    <TRODY>
      <TROW>
        <ENTRY>Revenue</ENTRY>
        <ENTRY>000</ENTRY>
       <ENTRY>100</ENTRY>
       <ENTRY>200</ENTRY>
       <ENTRY>300</ENTRY>
      </TROW>
      <TROW>
        <ENTRY>Liabilities</ENTRY>
        <ENTRY>000</ENTRY>
        <ENTRY>100</ENTRY>
        <ENTRY>200</ENTRY>
       <ENTRY>300</ENTRY>
     </TROW>
    </TBODY>
  </INLINETABLE>
</STORY>
```

The number of rows in such a table is determined by the number of <TROW> elements. The number of columns is determined by the maximum number of <ENTRY> elements in a <TROW>.

In the <TBODY> element, each <TROW> contains one or more <ENTRY> elements. If you don't style the text in an <ENTRY> element, it uses the default styling, which can be defined in a <TROWSTYLE> or <TCOLSTYLE> element (see below).

The <THEAD> element lets you create a repeating header for the table. The <TCONTINUED> element lets you create a "continued" row for the table. If you don't supply either of these elements, you must create the header row manually as a <TROW> in the <TBODY>.

For each row and column, you can specify the following things:

- COLOR: Cell background color.
- SHADE: Cell background shade.
- STORYDIRECTION: Story direction.

You can automatically adjust and position pictures in table cells. The VALIGN@ENTRY and ALIGNMENT@ENTRY attributes lets you specify the alignment of a cell, including picture cells.

The child attribute ORIENTATION lets you specify the orientation of the table, like

```
<INLINETABLE> ORIENTATION="LANDSCAPE">
```

On a portrait page, this would effectively rotate the table in a clock wise direction, while the page itself is not rotated.

The childPICTUREATTRIBUTES element lets you specify several picture attributes, including flip horizontal, flip vertical, angle, background and color, on picture cells of the table.

- This does not create a breakable table. The table will be confined to a single page.
- → If the number of rows is greater than the available rectangular size of the parent box, an error is returned stating the table cannot be fit into the available size.
- ➡ If you deconstruct a table that was created with an <INLINETABLE> element, the resulting XML describes the table as a <TABLE> element, not an <INLINETABLE> element.

Column Attributes

An <inlinetable> can also include optional <colgroup> elements, which allow you to specify column attrbutes in the form of <TCOL> elements, like so:

```
<TNLTNETABLE>
  <COLGROUP>
   <TCOL COLINDEX="1" WIDTH="250"/>
   <TCOL COLINDEX="2" MINWIDTH ="30pt" MAXWIDTH = "90pt"/>
   <TCOL COLINDEX="3" MINWIDTH ="20%" MAXWIDTH = "50%"/>
 </COLGROUP>
```

- The COLINDEX value indicates the column number.
- You can specify the WIDTH of a column in points by omitting a unit indicator, or as a percentage of the table width by including a % after the number.
- You can specify the MINWIDTH and MAXWIDTH of a column in points by omitting a unit indicator, or as a percentage of the table width by including a % after the number.

If no width is indicated, the column widths will be automatically computed depending on the length of the text in a cell or image in a cell. The sum total width of all columns would remain within the bounds of the parent box column width (typically the Automatic text box into which the table is laid out).

Table Span

An <INLINETABLE> can include an optional SPAN attribute. Values for SPAN can be:

- PAGEWIDTH the table will span the width of the page.
- ALLCOLUMNS the table will span all columns on the page.
- the number of columns to span.

```
<INLINETABLE SPAN="PAGEWIDTH">
    ....
</INLINETABLE>
```

Using table styles

Table styles make it easy to style inline tables. Rather than applying formatting directly, you can define a table style, then apply the table style to inline tables like so:

```
<INLINETABLE TABLESTYLEREF="TableStyle1">
```

For example, assume you want to create a table where alternating rows are shaded, the grid is a particular color, the insets are a particular amount, and so forth. Instead of specifying the formatting for such a table manually for every row, you can define the table's qualities in a table style, like so:

```
<PROJECT>
 <TABLESTYLE WIDTH="95">
   <ID NAME="tableStyle10"/>
   <TROWSTYLE INSET="2">
     <TOPGRID COLOR="none"/>
     <BOTTOMGRID COLOR="none"/>
   </TROWSTYLE>
   <HEADTROWSTYLE COLOR="red" SHADE="30">
     <TOPGRID COLOR="red" WIDTH="1"/>
     <BOTTOMGRID COLOR="black" WIDTH="1"/>
    </HEADTROWSTYLE>
    <ODDTROWSTYLE COLOR="black" SHADE="20">
     <TOPGRID COLOR="none"/>
     <BOTTOMGRID COLOR="none"/>
   </ODDTROWSTYLE>
   <EVENTROWSTYLE COLOR="magenta" SHADE="60">
     <TOPGRID COLOR="none"/>
     <BOTTOMGRID COLOR="none"/>
   </EVENTROWSTYLE>
   <TCOLSTYLE>
     <LEFTGRID COLOR="none"/>
     <RIGHTGRID COLOR="none"/>
   </TCOLSTYLE>
   <FIRSTTCOLSTYLE COLOR="Cyan" SHADE="90"/>
   <LASTTCOLSTYLE COLOR="Cyan" SHADE="50"/>
 </TABLESTYLE>
</PROJECT>
```

A <TABLESTYLE> lets you specify the following things:

<TROWSTYLE>: A row style to be applied to every row in the table. One of the
two mandatory elements of <TABLESTYLE>. Includes the INSET attribute, which
lets you specify the inset to apply on all four sides.

- <HEADTROWSTYLE>: A row style to be applied only to the header row.
- <ODDTROWSTYLE> and <EVENTROWSTYLE>: Row styles that let you format odd and even rows differently.
- <TCOLSTYLE>: A column style. One of the two mandatory elements of <TABLESTYLE>. Note that when the table is created, column styles override row styles.
- <FIRSTTCOLSTYLE> and <LASTTCOLSTYLE>: Column styles that let you style the first and last column of a table differently.
- <TOPGRID> and <BOTTOMGRID>: A grid line at the top or bottom of a row's cells.
- <LEFTGRID> and <RIGHTGRID>: A grid line at the left or right edge of a column's cells.

To apply a table style to an inline table, add a TABLESTYLEREF attribute to the <INLINETABLE> element, like so:

```
<INLINETABLE TABLESTYLEREF="tableStyle10">
```

You can also override <TABLESTYLE> attributes by specifying them as part of the table, like so:

```
<TROW>
  <TOPGRID COLOR="black" WIDTH="1"/>
 <BOTTOMGRID COLOR="red" WIDTH="1"/>
 <ENTRY COLSPAN="5">Statements</ENTRY>
</TROW>
```

Here, we've created a cell that spans five columns by supplying only one <ENTRY>, and we've specified a black, one-point top line and a red, one-point bottom line for that row only.

Working with sections

The Section feature lets you change the numbering system for a layout or a range of pages in a layout. To use this feature, you create a section start on a particular page. In that section start, you can specify a number format, a starting page number, and an optional prefix. For example:

```
<PAGE FORMATTEDNAME="A1" MASTER="A-Master A"</pre>
POSITION="RIGHTOFSPINE">
    <ID UID="1"/>
<SECTION FORMAT="ROMAN" NUMBER="1" PREFIX="A"</pre>
OPERATION="CREATE"/>
</PAGE>
```

</RICHTEXT>

Once you have inserted a <SECTION> element, QuarkXPress Server will apply section-specific numbering and formatting to automatic page numbers. To insert automatic page numbers, use the RICHTEXT@PAGENUMBERCHAR attribute:

```
<TEXT>
    <STORY STORYDIRECTION="HORIZONTAL">
        <PARAGRAPH MERGE="false" PARASTYLE="Normal">
           <RICHTEXT MERGE="false">This is page </RICHTEXT>
<RICHTEXT MERGE="false" PAGENUMBERCHAR="CURRENTPAGE"/>
            <RICHTEXT MERGE="false">. The story continues on page
```

Working with Composition Zones

A Composition Zones item in a deconstructed project is represented in XML by a <COMPOSITIONZONE> element. Like the <BOX> element type, this element type supports the <GEOMETRY>, <SHADOW>, and <FRAME> elements.

The content of each Composition Zones item is provided by a layout called the *composition layout*, which can be internal or external. Each <COMPOSITIONZONE> element includes a TYPE attribute that indicates whether its composition layout is internal or external.

- For internal Composition Zones items, each Composition Zones item is represented as an additional <LAYOUT> element within the <PROJECT> element. The LAYOUTREF element within the <COMPOSITIONZONE> element indicates the name of the <LAYOUT> that corresponds to that particular Composition Zones item.
- For external Composition Zones items, the PATH attribute indicates the location of the project containing the associated composition layout. However, a copy of the layout is also stored within the project as an additional <LAYOUT> element.

Composition Zones items must be created in QuarkXPress. <COMPOSITIONZONE> elements are ignored by the construct namespace and the modify parameter.

```
<SPREAD>...
 </LAYOUT>
</PROJECT>
```

You can create a shared layout for use in a Composition Zones item like so:

```
<LAYOUT OPERATION="CREATE" SHAREDSTATUS="THISPROJECT">
   <ID NAME="ScrollableLayout"/>
   <SPREAD>
     <ID UID="1"/>
   </SPREAD>
  </LAYOUT>
</PROJECT>
```

If you are creating App Studio issues, you can use this technique to create scrollable layouts on the fly. When doing so, use the HORIZONTALBINDING and VERTICALBINDING attributes to indicate which direction the layout should scroll.

You can modify the following aspects of an existing <COMPOSITIONZONE>:

- HORIZONTALBINDING and VERTICALBINDING
- LAYOUTOPACITY
- LAYOUTREF
- PREVIEWPAGE

For example:

```
<COMPOSITIONZONE HORIZONTALBINDING="false" LAYOUTOPACITY="100%"</pre>
    LAYOUTREF="Layout 6" PREVIEWPAGE="3" VERTICALBINDING="true">
  <PAGEREF ANGLE="0" NUMBER="1" OFFSETACROSS="0" OFFSETDOWN="0"</pre>
SCALE="100%"/>
</COMPOSITIONZONE>
```

Using XSL transformation

You can use an XSLT file to transform the XML returned by the xml namespace into other formats. You might find this feature useful if you want the xml namespace to return an XML representation that uses a different schema or a subset of the returned data.

To use this feature, use the XSL parameter in the request URL. If the XSL parameter specifies the absolute path to an XSLT file on the server, QuarkXPress Server uses that XSLT file to transform the response to that call. For example:

```
http://QXPServer8:8080/xml/project1.qxp?XSL=
path to XSLT file on server
```

→ When you use this feature, "XSL" must be in all caps.

To make the returned XML use the Modifier DTD, uncheck Use default XSLT and do not use the XSL parameter in your calls to the construct namespace.

→ QuarkXPress Server currently supports only XML output from XSL transformation.

Working with lists

The <LISTS> element allows you to construct and deconstruct QuarkXPress lists. Lists allow a user to automatically create a table of contents (TOC) or list of figures. For more information, see the Modifier DTD.

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<PROJECT JOBJACKET="Project2 Job Jacket"
  JOBTICKET="Default Job Ticket 1:Project2"
 PROJECTNAME="lis1.qxp" XMLVERSION="8.0">
 <LAYOUT POINTSPERINCH="72">
   <ID NAME="Layout 1"/>
   <LAYER>
     <ID NAME="Default"/>
     <RGBCOLOR BLUE="90" GREEN="90" RED="90"/>
   </LAYER>
    <SPREAD>
     <ID UID="1"/>
     <PAGE MASTER="A-Master A" POSITION="RIGHTOFSPINE">
       <ID UID="1"/>
      </PAGE>
      <BOX BOXTYPE="CT TEXT" COLOR="none">
        <ID NAME="Box5"/>
        <GEOMETRY>
         <POSTTION>
           <TOP>56</TOP>
            <LEFT>56</LEFT>
            <BOTTOM>200</BOTTOM>
            <RIGHT>300</RIGHT>
         </POSITION>
        </GEOMETRY>
        <TEXT>
          <STORY>
            <LIST LISTSTYLE="New List" OPERATION="CREATE">
          </STORY>
        </TEXT>
     </ROX>
   </SPREAD>
</LAYOUT>
</PROJECT>
```

LIST is a child of the STORY element. The value of LISTSTYLE will be the name of the list that had been created in QuarkXPress. When a project containing a list is deconstructed in XML, the XML will contain the text of the list, as well as a reference back to the LIST.

Working with anchored boxes

To create an anchored box within a text box, use a structure like the following:

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<PROJECT JOBJACKET="Macintosh HD:Server:Project1 Job Jacket"</pre>
  JOBTICKET="Default Job Ticket 1:Project2"
    PROJECTNAME="anchor.qxp" XMLVERSION="8.0">
    <LAYOUT POINTSPERINCH="72">
        <ID NAME="Layout 1"></ID>
        <LAYER>
            <ID NAME="Default"/>
            <RGBCOLOR BLUE="90" GREEN="90" RED="90"/>
        </LAYER>
        <SPREAD>
            <ID UID="1"/>
            <PAGE MASTER="A-Master A" POSITION="RIGHTOFSPINE">
                <ID UID="1"/>
            </PAGE>
            <BOX BOXTYPE="CT TEXT" COLOR="none">
                <ID NAME="Box5"/>
                <GEOMETRY LAYER="Default" PAGE="1">
                    <POSITION>
                        <TOP>36</TOP>
```

```
<LEFT>36</LEFT>
                        <BOTTOM>112</BOTTOM>
                        <RIGHT>210</RIGHT>
                    </POSITION>
                </GEOMETRY>
                <TEXT>
                    <STORY>
                        <PARAGRAPH MERGE="false"
PARASTYLE="Normal">
                            <RICHTEXT MERGE="false">Hello
</RICHTEXT>
                            <ANCHOREDBOXREF
ALIGNWITHTEXT="BASELINE"
                              OFFSET="0">Box7</ANCHOREDBOXREF>
                            <RICHTEXT MERGE="false">,
world</RICHTEXT>
                        </PARAGRAPH>
                    </STORY>
                </TEXT>
            </BOX>
            <BOX ANCHOREDIN="Box5" BOXTYPE="CT TEXT"</pre>
COLOR="none">
                <ID NAME="Box7" UID="7"/>
                <GEOMETRY PAGE="1" SHAPE="SH RECT">
                    <POSITION>
                        <TOP>0</TOP>
                        <LEFT>0</LEFT>
                        <BOTTOM>50</BOTTOM>
                        <RIGHT>75</RIGHT>
                    </POSITION>
                </GEOMETRY>
                <TEXT>
                    <STORY>
                        <PARAGRAPH MERGE="false"
PARASTYLE="Normal">
                            <RICHTEXT MERGE="false">anchored box
                              </RICHTEXT>
                        </PARAGRAPH>
                    </STORY>
                </TEXT>
            </BOX>
        </SPREAD>
    </LAYOUT>
</PROJECT>
```

Note that there are two BOX elements. One is the parent box that has the element ANCHOREDBOXREF, which points to the name of the anchored box. The anchored box itself has the attribute ANCHOREDIN, which points to the name of the parent box.

Working with placeholders

Placeholders allow a region of text in a QuarkXPress project to hold non-printing metadata. You can use placeholders to store information from other systems, or to provide information to third-party XTensions software or other tools that operate on QuarkXPress projects.

Placeholders are used by technologies within QuarkXPress, such as XML import. Modifier XT allows placeholder data to be added to a QuarkXPress project from your application, and the placeholder data can be read from a project using the xmlnamespace.

■ Unless a third-party XTensions software module for QuarkXPress is created to manage the placeholders inserted by your application using Modifier XML, a user is not prohibited from deleting placeholders from within the QuarkXPress user interface. In fact, users are not alerted to the presence of placeholders through the QuarkXPress user interface. You can use APIs in the QuarkXPress Server XTensions Software XDK to allow a suitable user interface for managing the placeholders inserted by your application. Contact QuarkAlliance for details about the XTensions software developer program.

There are two types of placeholders supported in Modifier XML: Text placeholders and Text Node placeholders. Text placeholders can be placed around a run of text to identify particular metadata with that text content.

```
<PROJECT>
    <LAYOUT>
       <ID UID="1"/>
        <SPREAD>
           <ID UID="1"/>
            <BOX>
                <ID NAME="name"/>
                    <STORY CLEAROLDTEXT="true">
                        <PARAGRAPH PARASTYLE="Normal"/>
                        <RICHTEXT>This is text that/RICHTEXT>
                        <TEXTPH NAME="SOURCE UID"
OWNER="1347639377">
                            <RICHTEXT>has a
placeholder</RICHTEXT>
                        </TEXTPH>
                   </STORY>
               </TEXT>
           </BOX>
        </SPREAD>
    </LAYOUT>
</PROJECT>
```

When a Text placeholder spans multiple paragraphs, the PARAGRAPH and RICHTEXT hierarchy is flattened. A new paragraph can be started using an empty PARAGRAPH element.

Text Node placeholders can represent a hierarchical structure of meta-tagging around text. This can allow more complex meta-tagging of data placed into a QuarkXPress project. Also, it allows some structure to be preserved within the QuarkXPress project format.

```
<PROJECT>
   <TLAYOUT>
       <ID UID="1"/>
       <SPREAD>
           <ID UID="1"/>
           <BOX>
               <ID NAME="name"/>
               <TEXT>
                   <STORY CLEAROLDTEXT="true">
                       <PARAGRAPH PARACHAR="HARDRETURN"/>
                       <TEXTNODEPH NAME="ARTICLE"
OWNER="1347639377">
                           <TEXTPH NAME="HEADLINE">
                                 <PARAGRAPH
PARASTYLE="Headline"/>
                                 <RICHTEXT>Text
                           </TEXTPH>
                           <TEXTPH NAME="STANDFIRST">
```

```
<PARAGRAPH
PARACHAR="HARDRETURN"
                                       PARASTYLE="1st para"/>
                                   <RICHTEXT>Text</RICHTEXT>
                             </TEXTPH>
                             <TEXTPH NAME="BODY">
                                     <PARAGRAPH
PARACHAR="HARDRETURN"
                                       PARASTYLE="Body"/>
                                    <RICHTEXT>Text</RICHTEXT>
                            </TEXTPH>
                             <METADATA>
                                <VALUE
KEY="ARTICLE ID">1145</VALUE>
                                <VALUE KEY="ARTICLE TYPE">Press
Release
                                 </VALUE>
                                 <VALUE.
KEY="AUTHOR">M.Gutherie</VALUE>
                            </METADATA>
                        </TEXTNODEPH>
                    </STORY>
                </TEXT>
            </BOX>
        </SPREAD>
    </LAYOUT>
</PROJECT>
```

- To avoid hierarchy conflicts between the placeholder hierarchy and the paragraph hierarchy, the paragraph structure is flattened, which means that PARAGRAPH and RICHTEXT elements become siblings. In this case, the PARACHAR attribute is not applied, and the Modifier XML should include the
- entity to represent paragraph break characters.
- → The OWNER attribute of the TEXTPH and TEXTNODEPH elements refers to the ID of the XTensions software that is responsible for the placeholder. The xml namespace returns all placeholders from all XTensions software. The default value for placeholders is "1347639377" (this is the XTension ID of PlaceholderSXT XT). If you want to create placeholders for your own XTensions software, use that XTensions software ID here.

Working with metadata

You can attach box-level metadata to a QuarkXPress project created from XML using the Modifier DTD. For example, if you import a picture from a content management system into a box, you can store the unique ID of that picture (and other information, such as the last-modified date) with the box containing that picture. When you deconstruct the project, you can read the metadata (for example, to track the usage of licensed pictures).

You can attach metadata to picture boxes, text boxes, tables, lines, and text paths. QuarkXPress Server metadata takes the form of key/value pairs. For more information, see the Modifier DTD.

To create a new box with metadata, use XML like the following. In this example, QuarkXPress Server creates a box named "box1" and associates Asset, Date, and Password key-value pairs with it.

```
<BOX OPERATION="CREATE" BOXTYPE="CT TEXT">
   <ID NAME="box1"/>
```

```
<METADATA>
       <VALUE KEY="Asset" ><![CDATA[1234567890]]>
        </VALUE>
        <VALUE KEY="Date" ><![CDATA[08.06.07]]>
        </VALUE>
       <VALUE KEY="Password" ><![CDATA[Hello World]]>
       </VALUE>
   </METADATA>
    <GEOMETRY SHAPE="SH RECT" PAGE="1">
        <POSITION>
            <TOP>5</TOP>
           <LEFT>5</LEFT>
           <BOTTOM>10</BOTTOM>
           <RIGHT>10</RIGHT>
       </POSITION>
    </GEOMETRY>
</BOX>
```

To delete metadata that is associated with a box, use XML like the following:

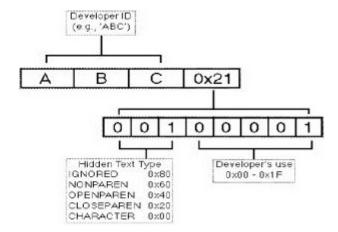
Working with hidden text

In QuarkXPress, hidden text is used by features which need to include information within the flow of text without that information being visible in its raw form, either on screen or at output. XTensions modules for QuarkXPress and QuarkXPress Server can use the data area in hidden text to store their custom data without changing the surrounding text. The custom data in the hidden text is simply invisible when opened in a copy of QuarkXPress that does not have the corresponding XTensions module. You can use hidden text in Modifier XML to interpret information added by a custom QuarkXPress XTension or to send instructions to a QuarkXPress Server XTensions during a modify or construct request.

Each piece of hidden text is identified by an *opcode*. An opcode is a four-digit hexadecimal number which specifies:

- The developer ID of the developer who created the XTensions module.
- The unique identifier of the hidden text type, as defined by the XTensions developer.
- The type of hidden text entry (OPENPAREN, CLOSEPAREN, NONPAREN, or IGNORED)

An opcode is constructed as follows:



The structure of a hidden text marker

In Modifier XML, hidden text is represented by the HIDDEN element. By default, hidden text is not output from the xml namespace. To output hidden text, specify the opcode= parameter in your request, like so:

http://server:port/xml/projectname.qxp?opcode=51434450

This example URL outputs all of the hidden text inserted by the XTensions software with this ID. To avoid byte order issues when cross-platform rendering is enabled, the XTID is represented decimally, rather than with the usual char [4] representation.

If you specify opcode=*, QuarkXPress Server returns all hidden text in the XML output. If you want only specific opcodes for a particular developer ID, you must pass the developer ID + the unique ID (more often than not, 1) + the sum of types of paren you wish to see (for example, to see OPENPAREN and CLOSEPAREN, you would calculate $0 \times 20 + 0 \times 40 = 0 \times 60$). For example, if you wanted to get only hidden text from the Custom Underline XTensions module, you would pass the request with the additional request parameter opcode=51526B61. The data you receive in the deconstructed hidden text is a base64 encoded version of the binary data which is stored in the hidden text. To interpret this, you must know the data structure which the XTension uses. Similarly, when you pass data back to an XTensions module through a modify or construct request, the data passed in the <HIDDEN> element must be base-64 encoded, and must be a valid structure in the format which the XTensions module is expecting.

You can use hidden text in different ways by using different hidden text types. For example, the Notes XTensions module uses the OPENPAREN and CLOSEPAREN hidden text type. This XTensions module lets users embed user comments at particular locations in text and view these comments can in a "sticky note" window. To accomplish this, the XTensions module embeds two hidden text markers in the text, and the text of the note goes between them. The piece of hidden text at the start of the note has the type OPENPAREN, and the piece at the end has the type CLOSEPAREN.

```
<PARAGRAPH MERGE="false" PARACHAR="HARDRETURN"</pre>
   PARASTYLE="001-TEXT">
    <RICHTEXT MERGE="false">
        The population of Iceland is 500,000,000.
    </RICHTEXT>
    <hidden datalen="100" opcode="51434450"
       OWNER="514344" TYPE="CHARACTERTYPE">
        <RICHTEXT LANGUAGE="USEnglish" MERGE="false">
```

The example XML extract above shows the output from the xml namespace of text that contains a note inserted by the Notes XT XTensions software. The note contains "This is the text of a CopyDesk note," which is represented as VGhpcyBpcyB0aGUgdGV4dCBvZiBhIENvcHlEZXNrIG5vdGU=. If this text is passed back to QuarkXPress Server in a modify or construct request, the hidden text inserted by the Notes XT XTensions software is preserved and can be read by the Notes XT XTensions software if the project is opened in QuarkXPress.

The Custom Underline XTensions module feature also uses this approach, but also stores the custom underline definitions in a binary data structure within the data of the CLOSEPAREN hidden text entry:

The data within the RICHTEXT element inside a HIDDEN element is a Base 64-encoded representation of the raw data that is stored within the hidden text. Considering that hidden text in QuarkXPress can contain any type of data, and the structure of that data is specified by the XTensions software that creates it, this method ensures that the data can be safely represented in XML. Also, this data can be converted back into the same raw data structure so that it can be read by the destination XTensions software. If the content is edited, the destination XTensions software may not be able to interpret it. Only XTensions software developers should attempt to interpret data from their own XTensions software.

Using interactivity

The <INTERACTIVITY> element describes an asset used as an interactive element for a format such as App Studio and ePUB.

The specific schema for an interactive element is determined by the XTensions module that owns that element, so such schemas are not defined here. The best way to create or modify an <INTERACTIVITY> element is to deconstruct it and then use the deconstructed XML as a template. Below are some examples of App Studio interactivity.

Button interactivity

Below is an example of App Studio Button interactivity.

```
<ID UID="8"/>
<BOX BLENDSTYLE="SOLID" BOXTYPE="CT PICT" COLOR="none">
<ID NAME="Button 2" UID="36"/>
<INTERACTIVITY AUTHORXTID="1131430225" OWNERXTID="1129333841"</pre>
TYPE="Button">
<Settings>
<settings>
<actions>
<action>
<type>gotofirstpage</type>
<name/>
</action>
</actions>
</settings>
</Settings>
<DATAPROVIDER DATAPROVIDERXTID="1131430225"/>
</INTERACTIVITY>
</BOX>
```

Scroll Zone interactivity

Below is an example of App Studio Scroll Zone interactivity.

```
<COMPOSITIONZONE LAYOUTREF="Scroll" OPERATION="CREATE">
<ID NAME="ScrollZone 1" UID="58"/>
<GEOMETRY CORNERRADIUS="0" CORNERSTYLE="RECTANGLE"</pre>
LAYER="Default" PAGE="7" SHAPE="SH RECT" SKEW="0">
<POSITION LOCKPROPORTIONS="false">
<TOP>216</TOP>
<LEFT>149</LEFT>
<BOTTOM>668</BOTTOM>
<RIGHT>630</RIGHT>
</POSITION>
<SUPPRESSOUTPUT>false
<RUNAROUND TYPE="NONE"/>
</GEOMETRY>
<FRAME COLOR="Black" GAPCOLOR="none" OPACITY="100%" SHADE="100%"</pre>
STYLE="Solid" WIDTH="0"/>
<PAGEREF ANGLE="0" NUMBER="1" OFFSETACROSS="0" OFFSETDOWN="0"</pre>
SCALE="100%"/>
<INTERACTIVITY AUTHORXTID="1131430225" OWNERXTID="1129333841"</pre>
TYPE="Scrollable Content">
<Settings>
<scrollzonesettings>
<defaultposition>1</defaultposition>
<fadeatends>true<fadedistance>60</fadedistance>
</fadeatends>
<showscrollbar>true</showscrollbar>
<automaticarrows>false</automaticarrows>
<loop>false</loop>
<docuid>4</docuid>
    <scrolldirection>1</scrolldirection>
</scrollzonesettings>
</Settings>
<DATAPROVIDER DATAPROVIDERXTID="1131430225"/>
</INTERACTIVITY>
</COMPOSITIONZONE>
```

- <scrolldirection>1</scrolldirection> Applies the Horizontal Scrolling
- <scrolldirection>2</scrolldirection> Applies the Vertical Scrolling

Slideshow interactivity

Below is an example of App Studio Slideshow interactivity.

```
<BOX BLENDSTYLE="SOLID" BOXTYPE="CT PICT" COLOR="none">
<ID NAME="Slideshow 1" UID="18"/>
<PICTURE ANGLE="0" DPI="144" FLIPHORIZONTAL="false"
FLIPVERTICAL="false" FULLRES="false" MASK="Composite"
OFFSETACROSS="0" OFFSETDOWN="0" OPACITY="100%" SCALEACROSS="100%"
SCALEDOWN="100%" SKEW="0" SUPRESSPICT="false">
<CLIPPING TYPE="ITEM"/>
</PICTURE>
<CONTENT PICTURECONTENTLOCK="true"</pre>
UID="9">Images\Slideshow01.jpg</CONTENT>
<INTERACTIVITY AUTHORXTID="1131430225" OWNERXTID="1129333841"</pre>
TYPE="Slideshow">
<Settings>
<slideshowsettings>
<allowfullscreen>true</allowfullscreen>
<allowinteraction>true</allowinteraction>
<uncroppedinfullscreen>false</uncroppedinfullscreen>
<autoplay>false</autoplay>
<sourcesettings>
<sourcetype>1</sourcetype>
</sourcesettings>
<animate>true<animationduration>6.000000</animationduration>
</animate>
<slides>
<slide slidetype="imagetype">
<imagepath>Images\slideshow1.jpg</imagepath>
<animatesettings>
<startcrop angle="0" xoffset="0" xscale="65536" yoffset="0"</pre>
yscale="65536"/>
<endcrop angle="0" xoffset="0" xscale="65536" yoffset="0"</pre>
yscale="65536"/>
</animatesettings>
<actions/>
</slide>
<slide slidetype="imagetype">
<imagepath>Images\slideshow2.jpg</imagepath>
<animatesettings>
<startcrop angle="0" xoffset="0" xscale="65536" yoffset="0"</pre>
yscale="65536"/>
<endcrop angle="0" xoffset="0" xscale="65536" yoffset="0"</pre>
yscale="65536"/>
</animatesettings>
<actions/>
</slide>
<slide slidetype="imagetype">
<imagepath>Images\slideshow3.jpg</imagepath>
<animatesettings>
<startcrop angle="0" xoffset="0" xscale="65536" yoffset="0"</pre>
yscale="65536"/>
<endcrop angle="0" xoffset="0" xscale="65536" yoffset="0"</pre>
yscale="65536"/>
</animatesettings>
<actions/>
</slide>
</slides>
</slideshowsettings>
</Settings>
<DATAPROVIDER DATAPROVIDERXTID="1131430225"/>
</INTERACTIVITY>
```

</BOX>

Video interactivity

Below is an example of App Studio Video interactivity.

```
<BOX BLENDSTYLE="SOLID" BOXTYPE="CT PICT" COLOR="none">
<ID NAME="Video 1" UID="21"/>
<PICTURE/>
<INTERACTIVITY AUTHORXTID="1131430225" OWNERXTID="1129333841"</pre>
TYPE="Video">
<Settings>
<videosettings>
<autoplay>false</autoplay>
<fullscreenonly>false</fullscreenonly>
<loop>false</loop>
<hidecontroller>false</hidecontroller>
<sourcesettings>
<sourcetype>1</sourcetype>
<sourcepath>Video\abc.mp4</sourcepath>
</sourcesettings>
<usevideoframe>false</usevideoframe>
<useofflineimage>false</useofflineimage>
</videosettings>
</Settings>
<DATAPROVIDER DATAPROVIDERXTID="1131430225"/>
</INTERACTIVITY>
</BOX>
```

Audio interactivity

Below is an example of App Studio Audio interactivity.

```
<BOX BLENDSTYLE="SOLID" BOXTYPE="CT PICT" COLOR="none">
<ID NAME="Audio 1" UID="24"/>
<INTERACTIVITY AUTHORXTID="1131430225" OWNERXTID="1129333841"</pre>
TYPE="Audio">
<Settings>
<audiosettings>
<autoplay>false</autoplay>
<loop>false</loop>
<hidecontroller>false</hidecontroller>
<stopatpageturn>true</stopatpageturn>
<stopatarticleend>true</stopatarticleend>
<sourcesettings>
<sourcetype>1</sourcetype>
<sourcepath>Audio\abc.mp3</sourcepath>
</sourcesettings>
<useofflineimage>false</useofflineimage>
</audiosettings>
</Settings>
<DATAPROVIDER DATAPROVIDERXTID="1131430225"/>
</INTERACTIVITY>
</BOX>
```

Go to URL interactivity

Below is an example of App Studio Go to URL interactivity.

```
<BOX BLENDSTYLE="SOLID" BOXTYPE="CT PICT" COLOR="none">
<ID NAME="Button 1" UID="6"/>
<PICTURE/>
<INTERACTIVITY AUTHORXTID="1131430225" OWNERXTID="1129333841"</pre>
TYPE="Button">
<Settings>
<settings>
<actions>
```

```
<action>
<type>gotourl</type>
<name/>
<gotourl>http://www.google.com</gotourl>
<switchtobrowser>false</switchtobrowser>
</action>
</actions>
</settings>
</settings>
</nataprovider DataproviderxTid="1131430225"/>
</interactivity>
</box
```

Web View interactivity

Below is an example of App Studio Web View interactivity.

```
<BOX BLENDSTYLE="SOLID" BOXTYPE="CT PICT" COLOR="none">
<ID NAME="WebView 1" UID="27"/>
<INTERACTIVITY AUTHORXTID="1131430225" OWNERXTID="1129333841"</pre>
TYPE="Embedded HTML">
<Settings>
<webviewsettings>
<allowuserinteraction>true</allowuserinteraction>
<scrollable>false</scrollable>
<allowzoom>false</allowzoom>
<sourcesettings>
<sourcetype>2</sourcetype>
<sourcepath>http://www.gsmarena.com</sourcepath>
</sourcesettings>
<useofflineimage>true<offlineimagepath/>
</useofflineimage>
</webviewsettings>
</Settings>
<DATAPROVIDER DATAPROVIDERXTID="1131430225"/>
</INTERACTIVITY>
</BOX>
```

Picture Zoom interactivity

Below is an example of App Studio Picture Zoom interactivity.

```
<BOX BLENDSTYLE="SOLID" BOXTYPE="CT PICT" COLOR="none">
<ID NAME="InteractivePicture 1" UID="39"/>
<PICTURE ANGLE="0" DPI="144" FLIPHORIZONTAL="false"
FLIPVERTICAL="false" FULLRES="false" MASK="Composite"
OFFSETACROSS="0" OFFSETDOWN="27.233" OPACITY="100%"
SCALEACROSS="83.2%" SCALEDOWN="83.2%" SKEW="0"
SUPRESSPICT="false">
<CLIPPING TYPE="ITEM"/>
</PICTURE>
<CONTENT PICTURECONTENTLOCK="true"</pre>
UID="9">Images\Slideshow01.jpg</CONTENT>
<INTERACTIVITY AUTHORXTID="1131430225" OWNERXTID="1129333841"</pre>
TYPE="Full-screen Image">
<Settings>
<picturezoomsettings>
<allowfullscreen>true</allowfullscreen>
<allowpinchzoom>false</allowpinchzoom>
<allowpanning>true</allowpanning>
<animatepanandzoom>false</animatepanandzoom>
<zoomsetting>0</zoomsetting>
</picturezoomsettings>
</Settings>
<DATAPROVIDER DATAPROVIDERXTID="1131430225"/>
```

```
</INTERACTIVITY>
</BOX>
```

360 degree interactivity

Below is an example of App Studio 360 degree interactivity.

```
<ID UID="8"/>
  <BOX BLENDSTYLE="SOLID" BOXTYPE="CT_PICT" COLOR="none">
   <ID NAME="360Degree 1" UID="31"/>
      <PICTURE/>
      <INTERACTIVITY AUTHORXTID="1131430225" NAME="360° Image 1"</pre>
        OWNERXTID="1129333841" TYPE="360 degree Image">
        <SettingsInitiallyHidden="False">
          <image360settings>
            <autoplay>true<spincount>2</spincount></autoplay>
            <allowinteraction>true</allowinteraction>
            <frames/>
          </image360settings>
        </Settings>
        <DATAPROVIDER DATAPROVIDERXTID="1131430225"/>
      </TNTERACTIVITY>
  </BOX>
```

Animation interactivity

Below is an example of App Studio Animation interactivity.

```
<ID UID="8"/>
 <BOX BLENDSTYLE="SOLID" BOXTYPE="CT PICT" COLOR="none">
   <ID NAME="animation 1" UID="32"/>
   <PICTURE/>
   <INTERACTIVITY AUTHORXTID="1131430225" NAME="Animation 1"</pre>
     OWNERXTID="1129333841" TYPE="Animation">
     <Settings InitiallyHidden="False">
        <animationsettings>
         <animationtype>11</animationtype>
         <autoplay>true</autoplay>
         <allowinteraction>true</allowinteraction>
         <initiallyhidden>false</initiallyhidden>
         <loop>false<loopcount>1</loopcount></loop>
         <duration>5</duration>
         <delay>0</delay>
         <timingfunc>
           <functype>0</functype>
           <func/>
         </timingfunc>
         <pathname/>
         <direction>0</direction>
         <endsettings>
           <hidden>false</hidden>
           <opacity>65536
           <angle>0</angle>
           <xscale>65536
           <yscale>65536
           <scaleproportionally>true</scaleproportionally>
         </endsettings>
       </animationsettings>
      </Settings>
     <DATAPROVIDER DATAPROVIDERXTID="1131430225"/>
    </INTERACTIVITY>
  </BOX>
```

Specifying colors

When specifying colors, you can use named Web colors such as "Silver" and "MediumSlateBlue" by name. You can also use RGB colors by specifying their hexadecimal values. For example:

```
<RICHTEXT COLOR="Teal" MERGE="false" BOLD="true">This text is
teal.</RICHTEXT>
<FRAME COLOR="#006699" GAPCOLOR="#996600" WIDTH="7"/>
```

Working with indexes

Indexes are a list of words or phrases ('Index Terms') and associated pointers to where useful material relating to that index term can be found in a document or on a page.

Index terms can be nested up to four levels and each level can have a separate style applied. The scope of the index term can also be set. Preferences for indexes can be defined, including setting the index marker color, the index term separator, the page range separator and the page list separator.

Marking and rendering indexes

Marking:

The INDEXTERM tag is used to mark indexes within the flow.

The RANGE element is used to mark the beginning and end of the scope of the occurrence of the index within the flow.

Use the RANGE element with a value of UNTILPARASTYLE to specify that a range should end at a particular style sheet.

Use the RANGE element with a value of NUMBEROFPARAGRAPHS to specify that a range should end after a specified number of paragraphs.

```
<PARAGRAPH>
    <RICHTEXT>....</RICHTEXT>
</PARAGRAPH>
<PARAGRAPH>
    <RICHTEXT>Edit Menu</RICHTEXT>
</PARAGRAPH>
```

Use the RANGE element with a value of ENDOFSTORY to specify that a range should end at the end of the story.

```
<PARAGRAPH PARASTYLE="Sub-Section Title">
   <RICHTEXT>File Menu</RICHTEXT>
</PARAGRAPH>
<INDEXTERM RANGE="ENDOFSTORY">File</INDEXTERM>
<PARAGRAPH>
   <RICHTEXT>....</RICHTEXT>
</PARAGRAPH>
<PARAGRAPH>
   <RICHTEXT>Edit Menu</RICHTEXT>
</PARAGRAPH>
```

Use the ADDALL element to indicate that all instances of the index term in the document should be added to the index.

```
<INDEXTERM ID="Unique ID" RANGE="START"</pre>
ADDALL="TRUE">Menu</INDEXTERM>
    <RICHTEXT>Term</RICHTEXT>
<INDEXTERM ID="UniqueID" RANGE="END"/>
```

Use the MAINTERM, SUBTERM1, SUBTERM2, and SUBTERM3, elements to specify the level of the index term.

```
<RICHTEXT>Menus of QXP</RICHTEXT>
<TNDEXTERM>
   <MAINTERM>Menus</MAINTERM>
    <SUBTERM1>Sub menu</SUBTERM1>
    <SUBTERM2>Utilities menu</SUBTERM1>
    <SUBTERM3>Insert Placeholder Text</SUBTERM1>
</INDEXTERM>
```

The previous XML snippet will produce the following results in the index:

```
Sub menu
 Utilities menu
    Insert Placeholder Text 1
```

Use the CROSSREFERENCETOINDEX element to create cross references between index terms. (Valid PREFIX values: see, see also, see herein)

```
<PARAGRAPH>
    <INDEXTERM>
        <MAINTERM>Menu</MAINTERM>
        <CROSSREFERENCETOINDEX PREFIX="see</pre>
also">Palettes</CROSSREFERENCETOINDEX>
    </INDEXTERM>
    <RICHTEXT>Term</RICHTEXT>
</PARAGRAPH>
```

Use the INDEXSPECIFICATIONS tag to define the index preferences, including setting the style and the index term separators.

```
<INDEXSPECIFICATIONS>
    <INDEXSTYLE NAME ="IndexStyle">
    <SEPARATORS BETWEEN-PAGE-NUMBERS=""</pre>
BETWEEN-PAGE-RANGE=""
                FOLLOWING-ENTRIES=""
                BEFORE-CROSS-REFERENCE=""
                CROSS-REFERENCE-STYLE=""
                LEVELFORMAT="NESTED"/>
    <LEVELSTYLE FIRSTLEVEL ="Style1"</pre>
```

```
SECONDLEVEL ="Style2"
THIRDLEVEL ="Style3"
FOURTHLEVEL =" Style4"
LETTERHEADSTYLE ="Style5"/>
</INDEXSTYLE>
</INDEXSPECIFICATIONS>
```

Rendering:

The INDEX OPERATION element is used to render indexes.

```
<PARAGRAPH>
<INDEX OPERATION="CREATE" Style="IndexStyle"/>/>
</PARAGRAPH>
```

Working with cross references

The cross references feature makes it easy to create cross references. There are three types of cross references that can be created in QuarkXPress:

- Footnotes
- Endnotes
- Numbered Items

Use the <XREF> elements in a <REFNOTE> element, to specify cross references.

To create a numbered item cross reference:

```
<PAGESEQUENCE MASTERREFERENCE="B-Body">
 <STORY>
   <PARAGRAPH PARASTYLE="Normal">
     <RICHTEXT MERGE="false">Paragraph text (see Section
</RICHTEXT>
     <XREF HREF="#d83c7191-fbb9-4565-8364-4de14c77c44a"</pre>
         CHARSTYLE="CrossRef" INCLUDEABOVEBELOW="true"
HYPERLINK="FALSE"
         SEPARATOR="->" />
     <RICHTEXT MERGE="false">and Appendix A) Paragraph text
continues.</RICHTEXT>
   </PARAGRAPH>
   <PARAGRAPH PARASTYLE="Heading1">
     <RICHTEXT MERGE="false">Support</RICHTEXT>
   </PARAGRAPH>
   <PARAGRAPH PARASTYLE="Heading2" XREFLABEL="d83c7191-fbb9-
4565-8364-4de14c77c44a">
     <RICHTEXT MERGE="false">Loss History</RICHTEXT>
   </PARAGRAPH>
 </STORY>
```

- Use the CHARSTYLE element to identify a character style sheet to be applied to the cross reference.
- Use the HYPERLINK element to enable/disable the hyperlink in the PDF output.
- Use the XREFSTYLE element to specify the type of cross reference.
- Use the SEPARATOR element to specify the separator text.

You can show custom text as the cross reference:

```
<PAGESEQUENCE MASTERREFERENCE="B-Body">
<STORY>
```

```
<PARAGRAPH PARASTYLE="Normal">
     <RICHTEXT MERGE="false">Paragraph text (see Section
</RICHTEXT>
     <XREF HREF="#d83c7191-fbb9-4565-8364-4de14c77c44a"</pre>
CHARSTYLE="CrossRef/>CUSTOM TEXT</XREF>
     <RICHTEXT MERGE="false">and Appendix A) Paragraph text
continues.</RICHTEXT>
   </PARAGRAPH>
   <PARAGRAPH PARASTYLE="Heading1">
     <RICHTEXT MERGE="false">Support
    </PARAGRAPH>
    <PARAGRAPH PARASTYLE="Heading2" XREFLABEL="d83c7191-fbb9-
4565-8364-4de14c77c44a">
     <RICHTEXT MERGE="false">Loss History</RICHTEXT>
    </PARAGRAPH>
  </STORY>
</PAGESEQUENCE>
```

Creating and using hyperlinks

There are three types of hyperlink:

- Web (WWWURL).
- Anchor (ANCHOR). You must define Anchor hyperlinks at the <LAYOUT> level.
- Page (PAGE). You must define Anchor hyperlinks at the <LAYOUT> level.

Web hyperlinks

You must define Web hyperlinks at the <PROJECT> level. For example, to create a Web hyperlink named Quark-dot-com, you could add the following as a child of

```
<HYPERLINK HLTYPE="WWWURL" NAME="Quark-dot-com"</pre>
TARGET="http://www.quark.com"/>
```

To add a Web hyperlink to a layout, add $\verb|HYERLINKREF|$ and $\verb|HLTYPE|$ attributes to a <BOX> or <RICHTEXT> element. For example, to use the Quark-dot-com hyperlink defined above, you could do something like this:

```
<RICHTEXT>this is a hyperlink to </RICHTEXT>
<RICHTEXT COLOR="Cyan" UNDERLINE="true"</pre>
HYPERLINKREF="Quark-dot-com" HLTYPE="WWWURL"
>quark.com</RICHTEXT>
```

→ You can use a Web hyperlink without creating it at the <PROJECT> level, but this is not the preferred method.

Anchor hyperlinks

To indicate the target of an Anchor hyperlink, use a <RICHTEXT> element like this:

```
<RICHTEXT HLANCHORREF="MyAnchor" />
```

To make sure the Anchor hyperlink works correctly, add something like this to the <\IAYOUT> element:

```
<HYPERLINK HLTYPE="ANCHOR" TARGET="#somewhere" />
```

To link to this Anchor hyperlink, use something like this:

```
<RICHTEXT HLTYPE="ANCHOR"</pre>
HYPERLINKREF="#somewhere">link</RICHTEXT>
```

→ You can use an Anchor hyperlink *without* creating it at the <PROJECT> level, but this is not the preferred method.

Page hyperlinks

To make sure a Page hyperlink works correctly, add something like this to the <LAYOUT> element:

```
<HYPERLINK HLTYPE="PAGE" NAME="Page 2" TARGET="2" />
```

To link to this Page hyperlink, use something like this:

```
<RICHTEXT HLTYPE="PAGE" HYPERLINKREF="Page 2" >Page2</RICHTEXT>
```

→ You can use a Page hyperlink *without* creating it at the <PROJECT> level, but this is not the preferred method.

Using the Streaming Document Provider

The Streaming Document Provider feature allows all of the assets required for a transaction to be provided as part of a multi-part HTTP request. Assets that can be streamed include:

- QuarkXPress templates.
- Picture files used in the template.
- Modifier XML.
- Picture and text files used in the Modifier XML.
- Assets used by digital publishing enrichments.
- → The Streaming Document Provider feature also supports keepdocopen requests.

QuarkXPress Server searches for assets used in a call in the following order:

- **1.** In the HTTP request.
- **2.** At the supplied file path (if specified).
- **3.** In the document pool.

If QuarkXPress Server does not find the required assets at any of these locations:

- If the image is being changed by the request, a "File not found" error occurs.
- If the image is not being changed by the request, it renders at preview resolution.

To use this feature, include a part in the HTTP request that has the same name as the asset to be streamed. For example:

</form></body> </html>

Using administrative request handlers

Administrative request handlers let you change the behavior of QuarkXPress Server. The built-in administrative request handlers are described in the topics below

→ You can add your own request handlers. During the DDSSETUPCBCODE callback, QuarkXPress Server XTensions software registers itself as a request handler via AddCustomRequestHandler, using the QuarkXPress Server XTensions API. The first parameter of this API is a pointer to a request handler function implemented in QuarkXPress Server XTensions software. The second parameter is a namespace string that identifies the request. When a user submits a request that has the same namespace string as a suffix to the request URL, QuarkXPress Server calls the request handler function with all the user-specified parameters in the ServerRequest structure. The request handler function then processes the request and submits the reply in a ServerReply structure, which QuarkXPress Server communicates back to the user agent.

Addfile

Use the addfile request handler to put a document or image file in the document pool. An addfile request is always a POST request because it uses binary content.

If you send an addfile request to QuarkXPress Server Manager using HTTP or the Web services interface while the common doc pool switch is set to off in the QuarkXPress Server Manager client, the file is uploaded to all registered QuarkXPress Server instances. If the common doc pool is enabled, the file can be uploaded to any one registered QuarkXPress server instance.

Namespace	addfile	addfile	
Parameters	uploadfile	Binary file or MIME- type file	Contains the actual binary content of the file to be uploaded. This can be a QuarkXPress file, a Word file, a text file, or a file with a MIME-type such as EPS, JPEG, PNG, or PICT.
Response	The message "File uploa	The message "File upload completed."	
Alerts	The file system document pool is not enabled.	HTTP Error #404This alert displays if you attempt to upload a document when the file system document pool is not enabled. What to do: Check Enable File System Document Pool in the Server Configuration dialog box.	
Incorrect administration re user name and password.		HTTP Error #401This alert displays if you specify an invalid administrator user name and password.What to do: Use the user name and password set in theQuarkXPress Server Manager	

		client Server Configuration dialog box.	
		HTTP Error #500QuarkXPress Server Error	
		#120This alert displays if you attempt to upload	
		a document that is in a subfolder that does not	
	Cannot find required	exist in the document pool while Generate	
	volume or folder	-	
	volume of folder	Hierarchy on Document Upload is unchecked in	
		the Server Configuration dialog box. What to do:	
		Check Generate Hierarchy on Document Upload	
I a see	Coo ((I I and a material disease 1 and	in the Server Configuration dialog box.	
Logs	See "Understanding log	0 0	
Evample CET LIDI	To post a binary file in the root		
Example GET URL	folder:http://localhost:8080/addfile/abc.qxpTo post a binary file in a		
		st:8080/addfile/sub1/abc.qxp	
	1 * '	ddFileRequest // STEP 1 (COMMON FOR ALL	
		qxpsm.QRequestContext rc = new	
	com.quark.qxpsm.QReq	•	
	1 '	gs1.documentName.Text.Equals(""))	
		s.DocumentSettings1.documentName.Text;	
	1	ΓheFile.PostedFile.InputStream; long length =	
	theStream.Length; Byte[] Buffer = new Byte[length]; const int		
	BUFFER_SIZE = 10000; int nBytesRead = 0,iCount = 0; long		
	remainingBytes = length — BUFFER_SIZE; if(remainingBytes >		
	BUFFER_SIZE) { nBytesRead = theStream.Read(Buffer,iCount *		
	BUFFER_SIZE,BUFFER_SIZE); while(0 != nBytesRead) { iCount++;		
	remainingBytes = length — (iCount * BUFFER_SIZE); if(remainingBytes		
	1	rtesRead = theStream.Read(Buffer,iCount *	
Example, object model			
	nBytesRead = theStream		
		ningBytes); AddFileRequest addfilereq = new	
	1	ereq.fileData = Buffer; rc.request = addfilereq; //	
	Create the service and call it with QRequestContext object Requ		
	1	svc = new RequestService(); QContentData qc = svc.processRequest(rc);	
	1	ct model uses SOAP to transfer data, and SOAP encoding is not	
	the most efficient way to transfer binary data. If you have to add a file using QuarkXPress Server Manager, the best way is to use a POST request in a QuarkXPress Server Manager URL. You might use QuarkXPress		
Manager to add a file if you wanted to		•	
	QuarkXPress Server instances at one time (assuming the instances are not sharing a single document pool).For more information, see the "AddFileRequest" .NET, Java, and Objective-C samples in the QuarkXPress		
	Server Manager SDK san	-	
		le of a POST request HTML form. <html></html>	
	<pre><head><title>Test Addfile</title></head> <body> File will always</body></pre>		
	be uploaded with name new.qxp <form< td=""></form<>		
Notes	ACTION="http://localhost:8080/addfile/new.qxp" METHOD = "post"		
	ENCTYPE="multipart/form-data"> Please select the file you want to		
	upload: <input name="uploadFile" type="file"/> 		
	TYPE=submit VALUE="S	Submit">	

The following example demonstrates how to use an HTML form to create a POST request that uses the addfile request handler. The form looks like this:

Please enter the name or IP of machine where QuarkXPress Server is running:	
Please enter the port number on which QuarkXPress Server is running:	
Please enter the new name (along with extension) with which file will be uploaded:	
Please select the file you want to upload: Browse	
Submit	

To use this form:

- 1. Enter the name or IP address of the computer on which QuarkXPress Server is running.
- **2.** Enter the port number in the port number field.
- 3. Enter the file name along with the extension in the file field. Click Browse if you need to find the file on your computer. The file will be uploaded with this name.

4. Click Submit.

The file uploads to the document pool of the specified server. After the file is successfully uploaded, the "File upload completed." alert is displayed.

For example, assume you want to upload a file named "Faces.pdf" (located at the root of the C drive) to an instance of QuarkXPress Server running at IP address 202.201.92.34 and port 8080, and that you want the name of the uploaded file on the server to be "NewFaces.pdf." Here's how you would accomplish this in the HTML form:

Please enter the name or IP of machine where QuarkXPress Server is running: 202.201.92.34
Please enter the port number on which QuarkXPress Server is running: 8080
Please enter the new name (along with extension) with which file will be uploaded: NewFaces.pdf
Please select the file you want to upload: C:/Faces.pdf Browse
Submit

The HTML code to generate the above sample file is as follows:

```
<HTML>
<HEAD>
  <TITLE>Test Addfile</TITLE>
  <SCRIPT LANGUAGE="JavaScript">
  function UploadDocument() {
   var URL;
   URL = "http://" + UploadForm.MachineIP.value + ":" +
     UploadForm.Port.value + "/addfile/" +
UploadForm.NewName.value;
   UploadForm.action = URL;
  </SCRIPT>
</HEAD>
 <FORM ID="UploadForm" METHOD = "post" ENCTYPE="multipart/form-</pre>
data"
```

```
onSubmit="UploadDocument()">
  Please enter the name or IP of machine where QuarkXPress Server
is running:
    <INPUT TYPE="TextBox" NAME="MachineIP"><br><br>
 Please enter the port number on which QuarkXPress Server is
running:
   <INPUT TYPE="TextBox" NAME="Port"><br><br>
 Please enter the new name (along with extension) with which
file will be uploaded:
    <INPUT TYPE="TextBox" NAME="NewName"><br><br>
  Please select the file you want to upload: <INPUT TYPE=file
NAME="uploadFile">
 <hr><hr><hr>>
  <INPUT TYPE=submit VALUE="Submit">
</FORM>
</BODY>
</HTML>
```

The information entered in the form is created with the following tags:

```
<FORM ID="UploadForm" METHOD = "post"
   ENCTYPE="multipart/form-data" onSubmit="UploadDocument()">
   Please enter the name or IP of machine where QuarkXPress Server
is running:
   <INPUT TYPE="TextBox" NAME="MachineIP"><br>
   Please enter the port number on which QuarkXPress Server is
running:
   <INPUT TYPE="TextBox" NAME="Port"><br>
   Please enter the new name (along with extension) with which
file will be uploaded:
   <INPUT TYPE="TextBox" NAME="NewName"><br>
   Please select the file you want to upload:
   <INPUT TYPE=file NAME="uploadFile"><br>
   <INPUT TYPE=submit VALUE="Submit"><</fr>
</ra>
```

The FORM tag specifies that the method of the request is POST. This request is a "Multipart/form-data" request. When you submit the form, the UploadDocument() function is called.

Use the INPUT tag to create the text box and the Browse button.

- <INPUT TYPE="TextBox": To create text boxes only.
- <INPUT TYPE=file: To create a combination of text box and the Browse
 button in the form. When you click Browse and choose any file, the file path of
 the selected file displays in the text box linked with the Browse button.

You can use the INPUT tag to create the Submit button: INPUT TYPE=submit VALUE="Submit">

When you click Submit, the <code>UploadDocument()</code> function is called. This function is defined inside a script tag. It combines the information that has been entered in the form to create a URL for the <code>addfile</code> request, then sends this URL to QuarkXPress Server for processing. The code for the <code>UploadDocument()</code> function is as follows:

```
UploadForm.action = URL;
</SCRIPT>
```

Delete

The delete request handler removes a specified document or folder from the document pool.

If you send a delete request to QuarkXPress Server Manager using HTTP or the Web services interface while the common doc pool switch is set to off in the QuarkXPress Server Manager client, the file or folder is uploaded to all registered QuarkXPress Server instances. If the common doc pool is enabled, the file or folder can be deleted from any one registered QuarkXPress server instance.

Namespace	delete	
Response	The message "File deleted success	sfully."
	File not found	HTTP Error #404 QuarkXPress Server Error #–43 This alert displays if you try to delete a file that does not exist in the document pool.
Alerts	Folder cannot be deleted. It may still contain files.	HTTP Error #405 This alert displays if you try to delete a folder that is not empty. What to do: First, delete all the files in the folder, and then resubmit the delete request to delete the folder.
	I/O error trying to read or write to disk.	HTTP Error #500 QuarkXPress Server Error #–36 This alert displays if you try to delete an open file.
	Incorrect administration realm user name and password.	HTTP Error #401 This alert displays if you specify an invalid administrator user name and password. What to do: Use the user name and password set in theQuarkXPress Server Manager client Server Configuration dialog box.
Logs	See "Understanding logging."	
Example GET URL	http://localhost:8080/delete/sample.qxp	
Example, object model	Request object name: DeleteRequestcom.quark.qxpsm.QRequestContext rc = new com.quark.qxpsm.QRequestContext(); if(!this.DocumentSettings1.documentName.Text.Equals("")) rc.documentName = this.DocumentSettings1.documentName.Text; rc.request = new DeleteRequest(); // Create the service and call it with QRequestContext object RequestService svc = new RequestService(); com.quark.qxpsm.QContentData qc =	

svc.processRequest(rc);

Evaluate

The evaluate request handler evaluates the document you specify using a rule set in the Job Jackets file you specify, and returns the results as an XML stream.

By default, this request handler evaluates the following rules:

- · Platform mismatch
- Missing fonts
- Missing pictures

These rules are defined in the "Default Job Jacket.xml" file, which is generated by QuarkXPress Server in the preferences folder.

You can specify multiple rule sets in a comma-separated list.

To specify which layouts to evaluate, use the layout parameter.

To evaluate using an external Job Jackets file, use the jobjacket parameter. For example: jobjacket=customjj.xml

Namespace	evaluate	evaluate		
Response	The default Job Jackets file.	The default Job Jackets file.		
		HTTP Error #401 This alert		
		displays if you specify an		
		invalid administrator user name		
Alerts	Incorrect administration realm	and password. What to do: Use		
Alerts	user name and password.	the user name and password set		
		in the QuarkXPress Server		
		Manager client Server		
		Configuration dialog box.		
Logs	See "Understanding logging."			
Example GET URL	http://localhost:8080/evaluate/N	http://localhost:8080/evaluate/MyProject.qxp?ruleset="MyRuleSe		
	t"	t"		
	Request object name:	Request object name:		
	EvaluateRequestcom.quark.qxpsm.QRequestContext rc = new			
	com.quark.qxpsm.QRequestCom	com.quark.qxpsm.QRequestContext();		
	if(!this.DocumentSettings1.docu	if(!this.DocumentSettings1.documentName.Text.Equals(""))		
Example, object model	rc.documentName =	rc.documentName =		
Example, object model	this.DocumentSettings1.documentName.Text; rc.request = new			
	EvaluateRequest(); //Create the service and call it with			
	QRequestContext object Reques	QRequestContext object RequestService svc = new		
	RequestService(); com.quark.qxp	RequestService(); com.quark.qxpsm.QContentData qc =		
	svc.processRequest(rc);			
	If a user name and password have been set in the Server			
Notes	Configuration dialog box, the browser requests that user name			
	and password when you submit a getdocinfo parameter request.			

Exportprefsasjj

The ${\tt exportprefsasjj}$ request handler returns the default Job Jackets file as an XML stream. If you add ?download=true. the Job Jackets file is downloaded to the Web browser's default download location as an XML file.

Namespace	exportprefsasjj	
Response	The default Job Jackets file.	
Alerts	Incorrect administration realm user name and password.	HTTP Error #401 This alert displays if you specify an invalid administrator user name and password. What to do: Use the user name and password set in the QuarkXPress Server Manager client Server Configuration dialog box.
Logs	See "Understanding logging."	
Example GET URL	http://localhost:8080/exportprefsasjj	
Notes	If a user name and password have been set in the Server Configuration dialog box, the browser requests that user name and password when you submit a getdocinfo parameter request.	

Fileinfo

The fileinfo request handler returns XML that contains the creation date, modification date, and file size of a document.

Namespace	fileinfo	fileinfo	
	action=get	Lets you retrieve the creation date of a file in UTC format. For example:http://localhost:8080/fileinfo/sample.qxd?	
Parameters	action=set	action=get&creationdate Lets you set the creation and modification dates of a file in UTC format. For example:http://localhost:8080/fileinfo/sample.qxp? action=set&creationdate=10-06-2007 12:12:37 UTC&modificationdate=10-06-2007 12:12:37 UTC	
Response	date, and size of the docume encoding="UTF-8" ?> <filed 2004 06:14:07 UTC <modificationdate>08-0</modificationdate></filed 	The following XML code displays the creation date, modification date, and size of the document. xml version="1.0" encoding="UTF-8" ? <fileinfo> <creationdate>08-01-2004 06:14:07 UTC </creationdate> <modificationdate>08-01-2004 11:56:56 UTC </modificationdate> <size>1519616</size> </fileinfo>	
Alerts	Incorrect administration real user name and password.	m HTTP Error #401 This alert displays if you specify an invalid administrator user name	

	1	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
		and password.What to do: Use
		the user name and password set
		in the QuarkXPress Server
		Manager client Server
		Configuration dialog box.
Logs	See "Understanding logging."	
Example GET URL	http://localhost:8080/fileinfo/sar	nple.qxp
	Request object name:	
	FileInfoRequestcom.quark.qxpsm.QRequestContext rc = new	
	com.quark.qxpsm.QRequestContext();	
	if(!this.DocumentSettings1.documentName.Text.Equals(""))	
	rc.documentName =	
Example, object model	this.DocumentSettings1.documentName.Text; rc.request = new	
	FileInfoRequest(); //Create the service and call it with	
	QRequestContext object RequestService svc = new	
	RequestService(); com.quark.qxpsm.QContentData qc =	
	svc.processRequest(rc);	
Notes	If a user name and password have been set in the Server	
	Configuration dialog box, the browser requests that user name	
	and password when you submit a fileinfo parameter request.	

FlushThe flush request handler flushes a document from the cache.

Namespace	flush	
Response	The message "CACHE FLUSH COMPLETED."	
		HTTP Error #401 This alert
		displays if you specify an
		invalid administrator user name
Alerts	Incorrect administration realm	and password.What to do: Use
Alerts	user name and password.	the user name and password set
		in the QuarkXPress Server
		Manager client Server
		Configuration dialog box.
Logs	See "Understanding logging."	
Example GET URL	http://localhost:8080/flush/sample.qxp	
	Request object name: FlushRequestsdk.QRequestContext rc = new	
	sdk.QRequestContext();	
	if(!this.DocumentSettings1.documentName.Text.Equals(""))	
	rc.documentName =	
Example, object model	this.DocumentSettings1.documentName.Text; rc.request = new	
	FlushRequest(); //Create the service and call it with	
	QRequestContext object RequestServiceService svc = new	
	RequestServiceService(); com.quark.qxpsm.QContentData qc =	
	svc.processRequest(rc);	
	If a user name and password have been set in the Server	
Notes	Configuration dialog box, the browser requests that user name	
	and password when you submit a flush parameter request.	

Flushall

Flushes all documents from the cache. When this request is sent to Server Manager using either HTTP or Web services, the cache of all registered QuarkXPress servers is flushed.

Namespace	flushall	
Response	The message "CACHE FLUSH COMPLETED."	
		HTTP Error #401 This alert
		displays if you specify an
		invalid administrator user name
Alerts	Incorrect administration realm	and password. What to do: Use
Alerts	user name and password.	the user name and password set
		in the QuarkXPress Server
		Manager client Server
		Configuration dialog box.
Logs	See "Understanding logging."	
Example GET URL	http://localhost:8080/flushall	
	Request object name: FlushAllRequestsdk.QRequestContext rc =	
	new sdk.QRequestContext();	
	if(!this.DocumentSettings1.documentName.Text.Equals(""))	
	rc.documentName =	
Example, object model	this.DocumentSettings1.documentName.Text; rc.request = new	
	FlushAllRequest(); //Create the service and call it with	
	QRequestContext object RequestServiceService svc = new	
	RequestServiceService(); com.quark.qxpsm.QContentData qc =	
	svc.processRequest(rc);	
	If a user name and password have been set in the Server	
	Configuration dialog box, the browser requests that user name	
Notes	and password when you submit a flushall parameter	
	request.When you issue a flushall request, the memory usage	
	value in the status monitor becomes zero.	

Getdocinfo

The getdocinfo request handler returns XML information about a QuarkXPress project that is in the document pool or has been supplied as part of a multipart HTTP request. The returned information includes the project version, the platform on which it was saved, the number of layers, page properties, the length and width of the page in points, the number of pages, the names of imported picture files, the names of any required fonts, the names and IDs of any relevant XTensions modules, and (for documents saved in QuarkXPress 6.0 or later) information about synchronized content.

Namespace	getdocinfo
	The XML response looks like the following: xml version="1.0"</td
	encoding="UTF-8" ?> <projinfo></projinfo>
Response	<platform>WINDOWS</platform>
Response	<version>7.0</version> <name>Sample.qxp</name>
	<requiredxtensions></requiredxtensions> <fontusage> </fontusage>
	<name>ArialMT</name>

	<pages>4</pages> <pagepron <pag<="" <page="" <pagepron="" <pages="" th=""><th></th></pagepron>	
	<pre><filepath>E:\pics\Jpeg\Autumn.jpg</filepath></pre>	
		,
Alerts	Incorrect administration realm user name and password.	HTTP Error #401 This alert displays if you specify an invalid administrator user name and password. What to do: Use the user name and password set in the QuarkXPress Server Manager client Server Configuration dialog box.
Logs	See "Understanding logging."	
Example GET URL Example, object model	http://localhost:8080/getdocinfo/sample.qxp Request object name: GetDocInfoRequestsdk.QRequestContext rc = new sdk.QRequestContext(); if(!this.DocumentSettings1.documentName.Text.Equals("")) rc.documentName = this.DocumentSettings1.documentName.Text; rc.request = new GetDocInfoRequest(); //Create the service and call it with QRequestContext object RequestServiceService svc = new RequestServiceService(); com.quark.qxpsm.QContentData qc = svc.processRequest(rc);	
Notes	If a user name and password have been set in the Server Configuration dialog box, the browser requests that user name and password when you submit a getdocinfo parameter request.	

Getdocpoollist

The <code>getdocpoollist</code> request handler returns an XML description of all files and folders in the local document pool, including name, size, type, modification date and time, and absolute and relative path.

Namespace	getdocpoollist	
Response	XML description of files and folders in the local document pool.	
		Use this parameter to get
		information about a particular
Parameters	dimentant	directory in the document pool.
	directory	For example:
		http://server:port/getdocpoollist
		?directory=images
Alerts	Incorrect administration realm user name and password.	HTTP Error #401 This alert displays if you specify an invalid administrator user name

		and password. What to do: Use
		the user name and password set
		in the QuarkXPress Server
		Manager client Server
		Configuration dialog box.
Logs	See "Understanding logging."	
Example GET URL	http://localhost:8080/getdocpoollist	
Example, object model	Request object name: GetDocPoolListRequest	
	If a user name and password have	e been set in the Server
Notes	Configuration dialog box, the browser requests that user name	
	and password when you submit a	a fileinfo parameter request.

Getlogs

The getlogs request handler returns the current preference settings for $Quark XP ress\ Server\ in\ XML\ format.\ If\ you\ add\ \verb!?download=true!,\ the\ logs\ are$ returned in a .zip file.

Namespace	getlogs	
Response	The QuarkXPress Server transaction log.	
		HTTP Error #401 This alert
		displays if you specify an
		invalid administrator user name
Alonto	Incorrect administration realm	and password. What to do: Use
Alerts	user name and password.	the user name and password set
		in the QuarkXPress Server
		Manager client Server
		Configuration dialog box.
Logs	See "Understanding logging."	
Example GET URL	http://localhost:8080/getlogs	
	If a user name and password have been set in the Server	
Notes	Configuration dialog box, the browser requests that user name	
	and password when you submit a getprefs parameter request.	

Getprefs

The ${\tt getprefs}$ request handler returns the current preference settings for QuarkXPress Server in XML format.

Namespace	getprefs	
Response	An XML description of QuarkXP	ress Server preference settings.
		HTTP Error #401 This alert
		displays if you specify an
		invalid administrator user name
Alerts	Incorrect administration realm	and password. What to do: Use
Alerts	user name and password.	the user name and password set
		in the QuarkXPress Server
		Manager client Server
		Configuration dialog box.
Logs	See "Understanding logging."	

Example GET URL	http://localhost:8080/getprefs
	// Create the service and call getPreferences method
Evample object model	RequestService requestService = new RequestServiceStub();
Example, object model	Preferences preferences= requestService.getPreferences("[host]",
	[port], "[username]", "[port]");
	The getprefs request handler returns preference settings for server
Notes	configuration and Status Monitor. It does not return other
	preference settings, such as the settings for Deconstruct and PDF
	workflow.If a user name and password have been set in the Server
	Configuration dialog box, the browser requests that user name
	and password when you submit a getprefs parameter request.

Getprocessid

The getprocessid request handler returns the process IDs of the master QuarkXPress Server instance and of all subrender processes running on the computer.

Namespace	getprocessid
	An XML description of the process IDs of the master QuarkXPress
	Server instance and of all subrender processes running on the
Dognamas	computer. For example: <processid> <master> <id>3936</id></master></processid>
Response	<status>BUSY</status> <subrenderers></subrenderers>
	<subrenderer> <id>1736</id> <status>BUSY</status></subrenderer>
Example GET URL	http://localhost:8080/getprocessid

Getprojinfo

The <code>getprojinfo</code> request handler returns XML information about a QuarkXPress project that is in the document pool or has been supplied as part of a multipart HTTP request. The returned information identifies the operating system, the version of QuarkXPress in which the project was created, the size of the project, the page properties for the project's layouts, and information about named boxes and synchronized text.

Namespace	getprojinfo	
	The XML response looks like the	following: xml version="1.0"</td
	encoding="UTF-8" ?> <projinfo< td=""><td>)></td></projinfo<>)>
	<platform>WINDOWS<td>FORM></td></platform>	FORM>
	<version>6.0</version> <na< td=""><td>AME>Sample.qxp</td></na<>	AME>Sample.qxp
	<size>1519616 Bytes</size> <s< td=""><td>YNCHRONIZED/> <layout></layout></td></s<>	YNCHRONIZED/> <layout></layout>
Response	<name>Layout 1</name> <type>Print</type>	
	<pages>4</pages> <pagepro< td=""><td>OPERTIES></td></pagepro<>	OPERTIES>
	<width>432</width> <le< td=""><td>NGTH>756</td></le<>	NGTH>756
	<namedi< td=""><td>BOX> <box>box2</box></td></namedi<>	BOX> <box>box2</box>
	<box>box1</box> <td>BOX> </td>	BOX>
Alexto	The getprojinfo command can	HTTP Error #500 This alert
Alerts	only be used for QuarkXPress 6	displays if you specify a

	documents and later.	QuarkXPress 4.0 or 5.0
		document.
		HTTP Error #401 This alert
		displays if you specify an
		invalid administrator user name
	Incorrect administration realm	and password. What to do: Use
	user name and password.	the user name and password set
		in the QuarkXPress Server
		Manager client Server
		Configuration dialog box.
Logs	See "Understanding logging."	
Example GET URL	http://localhost:8080/getprojinfo/sample.qxp	
	Request object name: GetProjectInfoRequestsdk.QRequestContext	
	rc = new sdk.QRequestContext();	
	if(!this.DocumentSettings1.documentName.Text.Equals(""))	
	rc.documentName =	
Example, object model	this.DocumentSettings1.documentName.Text; rc.request = new	
	GetProjectInfoRequest(); //Create the service and call it with	
	QRequestContext object RequestServiceService svc = new	
	RequestServiceService(); QContentData qc =	
	svc.processRequest(rc);	
	The getprojinfo parameter only works with projects saved in	
	QuarkXPress 6.0 and later.If a user name and password have been	
Notes	set in the Server Configuration dialog box, the browser requests	
	that user name and password when you submit a getprojinfo	
	parameter request.	

Getrendererprefs

The ${\tt getrendererprefs}$ request handler returns the current preference settings for QuarkXPress Server in XML format.

Namespace	getrendererprefs	
Response	An XML description of QuarkXPress Server renderer preference settings.	
Response		
		HTTP Error #401 This alert
		displays if you specify an
		invalid administrator user name
Alerts	Incorrect administration realm	and password. What to do: Use
Alerts	user name and password.	the user name and password set
		in the QuarkXPress Server
		Manager client Server
		Configuration dialog box.
Logs	See "Understanding logging."	
Example GET URL	http://localhost:8080/getrendererprefs	
	The schema for the returned XML stream can be found at	
	webapps/ROOT/QuarkXPress Server	
Notes	Renderer/QXPSRendererPreferences.xsd.If a user name and	
	password have been set in the Server Configuration dialog box,	
	the browser requests that user name and password when you	

submit a getrendererprefs parameter request.

Getserverinfo

The <code>getserverinfo</code> request handler returns XML information about QuarkXPress Server. The returned information includes the platform on which QuarkXPress Server is running, the version of QuarkXPress Server, a list of installed fonts and server XTensions modules, the relevant XTensions server XTensions module IDs, the startup parameters, and the output styles with which the server is running. Disabled server XTensions modules are not listed in the response.

Namespace	getserverinfo	getserverinfo	
Response	XML containing information ab	out this QuarkXPress server	
Response	instance.		
		HTTP Error #401 This alert	
		displays if you specify an	
		invalid administrator user name	
Alerts	Incorrect administration realm	and password. What to do: Use	
Alerts	user name and password.	the user name and password set	
		in the QuarkXPress Server	
		Manager client Server	
		Configuration dialog box.	
Logs	See "Understanding logging."		
Example GET URL	http://localhost:8080/getserverin	http://localhost:8080/getserverinfo	
	Request object name:	Request object name:	
	GetServerInfoRequestcom.quark	GetServerInfoRequestcom.quark.qxpsm.QRequestContext rc =	
	new com.quark.qxpsm.QReques	new com.quark.qxpsm.QRequestContext();	
	if(!this.DocumentSettings1.docu	if(!this.DocumentSettings1.documentName.Text.Equals(""))	
Example, object model	rc.documentName =	rc.documentName =	
Example, object model	this.DocumentSettings1.docume	this.DocumentSettings1.documentName.Text; rc.request = new	
	GetServerInfoRequest(); //Crea	GetServerInfoRequest(); //Create the service and call it with	
	QRequestContext object Reques	QRequestContext object RequestService svc = new	
	RequestService(); com.quark.qxp	osm.QContentData qc =	
	svc.processRequest(rc);		
	If a user name and password have	If a user name and password have been set in the Server	
Notes	Configuration dialog box, the b	Configuration dialog box, the browser requests that user name	
rotes	and password when you submit	and password when you submit a getserverinfo parameter	
	request.	request.	

Jobjacket

The jobjacket request handler returns a Job Jackets file containing copies of all of the resources in the specified project. This is similar to what happens when you use jiname= in a modifier XML request, but it returns the Job Jackets file directly, rather than writing it to the document pool.

Namespace	jobjacket	
Response	A Job Jackets file containing copies of all of the resources in the specified project.	
Alerts	Incorrect administration realm	HTTP Error #401 This alert

	user name and password.	displays if you specify an
		invalid administrator user name
		and password. What to do: Use
		the user name and password set
		in the QuarkXPress Server
		Manager client Server
		Configuration dialog box.
Logs	See "Understanding logging."	
Example GET URL	http://localhost:8080/jobjacket/r	myproject.qxp
	Request object name:	
	JobJacketRequestcom.quark.qxpsm.QRequestContext rc = new	
	com.quark.qxpsm.QRequestContext();	
	if(!this.DocumentSettings1.documentName.Text.Equals(""))	
Example object model	rc.documentName =	
Example, object model	this.DocumentSettings1.documentName.Text; rc.request = new	
	JobJacketRequest(); //Create the service and call it with	
	QRequestContext object RequestService svc = new	
	RequestService(); com.quark.qxpsm.QContentData qc =	
	svc.processRequest(rc);	
	If a user name and password have been set in the Server	
Notes	Configuration dialog box, the browser requests that user name	
livotes	and password when you submit a getrendererprefs parameter	
	request.	

Preflight

Use the preflight request handler to check a project for missing fonts and missing pictures prior to output. You can also use this request handler to determine if the platform on which a project was created is different from the platform on which QuarkXPress Server is running.

→ The preflight request handler has been deprecated. Use the evaluate request handler instead. For more information, see "Evaulate."

Namespace	preflight		
	The XML response looks like the following: xml version="1.0"</td		
	encoding="UTF-8" standalone="no" ?> <preflight></preflight>		
Dognama	<platformmismatch< td=""><td>>TRUE</td></platformmismatch<>	>TRUE	
Response	<missingfont>Midash</missingfont>	niGoPro-MB31	
	<missingpicture>/Qu</missingpicture>	arkXPress Server Documents/images/illus_eps.eps	
	</td <td>PREFLIGHT></td>	PREFLIGHT>	
		HTTP Error #404 QuarkXPress Server Error #-43	
Alerts	File not found	This alert displays if you try to delete a file that is	
		not available to QuarkXPress Server.	
Logs	See "Understanding logging."		
	To preflight a project in the root		
Example GET URL	folder:http://localhost:8080/preflight/abc.qxpTo preflight a binary file in a		
	subfolder:http://localhost:8080/preflight/sub1/abc.qxp		
	Request object name: PreflightRequest		
Example, object model	com.quark.qxpsm.QRequestContext rc = new		
	com.quark.qxpsm.QRequestContext();		

if(!this.DocumentSettings1.documentName.Text.Equals(""))
rc.documentName = this.DocumentSettings1.documentName.Text;
rc.request = new PreflightRequest(); //Create the service and call it with
QRequestContext object RequestService svc = new RequestService();
com.quark.qxpsm.QContentData qc = svc.processRequest(rc);

Setprefs

The setprefs request handler lets you set server preferences. To use this request handler, issue a <code>getprefs</code> request, determine the name of the tag that needs to be modified, and then submit a <code>setprefs</code> request with the using the name of this tag. For example, to turn off memory caching, you would first submit a <code>getprefs</code> request to the server. In the resulting XML, you would note that the name of the tag for memory caching tag is <code>AllowMemoryCaching</code>. Finally, you would submit a <code>setprefs</code> request to the server, like so:

http://localhost:8080/setprefs?AllowMemoryCaching=false

For a full list of preferences, see "General preferences" and "Renderer preferences."

Namespace	setprefs	
Response	The message "Preferences successfully set."	
		HTTP Error #401 This alert
		displays if you specify an
		invalid administrator user name
Alerts	Incorrect administration realm	and password. What to do: Use
Alerts	user name and password.	the user name and password set
		in the QuarkXPress Server
		Manager client Server
		Configuration dialog box.
Logs	See "Understanding logging."	
Example GET URL	http://localhost:8080/setprefs?CacheSize=200	
	EMailPreferences emailPrefs = new EMailPreferences();	
	emailPrefs.emailFrom = "from@email.com"; emailPrefs.emailTo =	
	"to@email.com"; emailPrefs.smtpPort = "25";	
Example, object model	emailPrefs.smtpServerIP = "SMTPServerIP"; Preferences prefs =	
Example, object model	new Preferences(); prefs.setEmailPreferences(emailPrefs); // Create	
	the service and call setPreferences method RequestService svc =	
	new RequestService(); svc.setPreferences("ServerName",	
	"ServerPort", "Username", "Password", prefs);	
	If a user name and password have been set in the Server	
Notes	Configuration dialog box, the browser requests that user name	
	and password when you submit a setprefs parameter request.	

General preferences

The /getprefs handler lets clients remotely retrieve an XML representation of the current QuarkXPress Server preferences, as described below.

The /setprefs handler lets clients remotely control QuarkXPress Server preferences. For example,

http://<servername>:<port>/setprefs?AddConnectionFilter=action=al

low;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.

Attribute	Туре	Description
CacheSize	intogor	Specifies the memory cache size
Cachesize	integer	from 1MB to 1024MB.
DocumentRootFolder	ctring	Specifies the document root
DocumentRootFolder	string	directory.
		Specifies whether to include
LogTiming	Boolean	timing information (such as
Logiming	Boolean	processing time and opening
		time) in the transaction log.
	Boolean	Causes QuarkXPress Server to
ForceServedDocumentsClosed		close projects that are loaded
roiceseivedDocumentsClosed		into cache from the document
		pool after rendering them.
		Specifies whether to store disk-
AllowMemoryCaching	Boolean	based projects in a
		memory-resident cache.
		Sets the default. Valid values
DefaultRenderType	string	include PNG, PDF, EPS, PSCR,
		QXPD, RAW, RLER, and JPEG.
LagDagDrobloms	Boolean	Specifies whether to log any
LogDocProblems		project problems.

Setrendererprefs

The setrendererprefs request handler lets you set rendering preferences. To use this request handler, issue a ${\tt getrendererprefs}$ request, determine the name of the tag that needs to be modified, and then submit a setrendererprefs request with the using the name of this tag. For example, set color TIFF and gray TIFF display preferences, you would first submit a getrendererprefs request to the server, then update these settings and submit a $\operatorname{setrendererprefs}$ request to the server, like so:

http://server:port/setrendererprefs?modify=<QXPSRENDERERPREFERENC <DISPLAY><ColorTIFFs>8-bit</ColorTIFFs><GrayTIFFs>16 levels</GrayTIFFs></DISPLAY> </QXPSRENDERERPREFERENCES>

This request handler sets the preferences for *all* renderers.

Namespace	setrendererprefs	
Response	The message "Preferences successfully set."	
		HTTP Error #401 This alert
		displays if you specify an
Alerts		invalid administrator user name
	Incorrect administration realm	and password. What to do: Use
	user name and password.	the user name and password set
		in the QuarkXPress Server
		Manager client Server
		Configuration dialog box.

Logs	See "Understanding logging."
	http://localhost:8080/setrendererprefs?modify=
Evample CET LIDI	<qxpsrendererpreferences><display><colortiffs>8-</colortiffs></display></qxpsrendererpreferences>
Example GET URL	bit <graytiffs>16</graytiffs>
	levels
	The schema for the returned XML stream can be found at
Notes	webapps/ROOT/QuarkXPress Server
	Renderer/QXPSRendererPreferences.xsd.If a user name and
	password have been set in the Server Configuration dialog box,
	the browser requests that user name and password when you
	submit a setrendererprefs parameter request.

Renderer preferences

The /getrendererprefs handler lets clients remotely retrieve an XML representation of the current QuarkXPress Server renderer preferences, as described below. For a detailed description of each preference, see "General Preferences dialog box" in *A Guide to QuarkXPress Server*.

The /setrendererprefs handler lets clients remotely control QuarkXPress Server renderer preferences. For more information, see "Setrendererprefs."

Attribute	Туре	Description
DISPLAY		•
ColorTIFFs	string	Set to 8-bit or 24-bit.
GrayTIFFs	string	Set to 16 levels or 256 levels.
MonitorProfile	atain a	Set to one of the options under
Monitorrome	string	MonitorProfileList.
		Includes one <monitorprofile></monitorprofile>
MonitorProfileList	collection	element for each available
		monitor profile.
INPUTSETTINGS		
SmartQuotes	Boolean	Set to true or false.
		Set to the zero-based index of
		the desired format. For the list
		of available formats, see the
SmartQuoteFormat	integer	Input Settings pane of the
		Preferences dialog box in the
		QuarkXPress Server
		administrative interface.
SequentialPageRangeSeparator	string	Set to one character only.
NonSequentialPageRangeSepara	string	Sat to one character only
tor	string	Set to one character only.
FONTFALLBACK		
ApplyFontFallback	Boolean	Set to true or false.
Search	Boolean	Set to true or false.
SearchType	Boolean	Set to Paragraph or Active Story.
SearchLimit	integer	Set to search limit number.
PreferredFont	string	Includes a <preferredfont></preferredfont>
		element with each of the
		following

Attribute	Туре	Description
		attributes:ScriptOrLanguage="C
		yrillic"
		ScriptOrLanguage="Greek"
		ScriptOrLanguage="Latin"
		ScriptOrLanguage="Japanese"
		ScriptOrLanguage="Korean"
		ScriptOrLanguage="Simplified
		Chinese"
		ScriptOrLanguage="Traditional
		Chinese"
		Set to the name of the slug line
SlugLineFont	string	font.
OPENANDSAVE	<u> </u>	
		Set to Roman, Central
		European, Greek, Cyrillic,
OpenSaveNonUnicodeEncoding	string	Turkish, Japanese, Korean,
o pensar er torre mes accures anno		Simplified Chinese, or
		Traditional Chinese.
FONTS		Traditional Chinese.
SpecifyDefaultFontReplacement	Boolean	Set to true or false.
speerly Belluari offenepiucement	Boolean	Set to the Roman replacement
ReplacementFontRoman	string	font.
		Set to the East Asian
ReplacementFontEastAsian	string	replacement font.
HighlightCharacterChanges	Boolean	Set to true or false.
EPS	Boolean	see to true of fuise.
EPSPreview	string	Set to Embedded or Generate.
PDF	[st.m.8	See to Empeaded of Sefferate.
	string	Set to PS4D, PDFtoFolder, or
PDFWorkflow		DirectPDF.
		Set to the path of the watched
WatchedFolder	string	folder.
DEFAULTPRINTLAYOUGENERAI		12010011
		Set to Keep Changes or Delete
MasterPageItems	string	Changes.
Framing	string	Set to inside or outside.
		Set to Off, End of Story, End of
AutoPageInsertionMode	string	Section, or End of Document.
DEFAULTPRINTLAYOUTMEASUI	REMENTS	,
		Set to Inches, Inches Decimal,
		Picas, Points, Millimeters,
HorizontalUnits	string	Centimeters, Ciceros, Agates, or
		Q.
		Set to Inches, Inches Decimal,
	string	Picas, Points, Millimeters,
VerticalUnits		Centimeters, Ciceros, Agates, or
		Q.
		Set to the number of points per
PointsPerInch	float	inch.
	l .	111011.

Attribute	Туре	Description
CicerosPerCM	float	Set to the number of ciceros per
Cicciosi cicivi	noat	centimeter.
PARAGRAPH		
AutoLeading	float	Set to the percentage to use for
		auto leading.
MaintainLeading	Boolean	Set to true or false.
LockToGridOption	string	Set to Ascent and Descent or
		Font Size (Em Box).
CHARACTER		
SuperScriptOffset	string	Set to the superscript offset
		percentage.
SuperScriptHScale	string	Set to the superscript horizontal
		scale percentage.
SuperScriptVScale	string	Set to the superscript vertical
		scale percentage.
SubScriptOffset	string	Set to the subscript offset
		percentage. Set to the subscript horizontal
SubScriptHScale	string	1
		scale percentage.
SubScriptVScale	string	Set to the subscript vertical scale
		percentage. Set to the small caps horizontal
SmallCapsHScale	string	
		scale percentage.
SmallCapsVScale	string	Set to the small caps vertical
		scale percentage. Set to the superior horizontal
SuperiorHScale	string	scale percentage.
		Set to the superior vertical scale
SuperiorVScale	string	percentage.
		Set to the ligature-break-above
LigatureBreakAbove	string	value.
NotffiORffl	Boolean	Set to true or false.
AutoKern	Boolean	Set to true or false.
Autokem	Doolean	Set to the auto-kern-above
AutoKernAbove	integer	value.
StandardEmSpace	Boolean	Set to true or false.
-		Set to the flex space width
FlexSpaceWidth	string	percentage.
AccentsForAllCaps	Boolean	Set to true or false.
		Set to the amount of space
SpaceCJKandR	float	between East Asian and Roman
SpaceSynamon		letters.
TRAPPING	ļ	
		Set to Absolute, Proportional, or
TrappingMethod	string	Knockout All.
ProcessTrapping	Boolean	Set to true or false.
IgnoreWhite	Boolean	Set to true or false.
	g	Set to the auto trapping amount
AutoAmount	float	value.

Attribute	Туре	Description
Indeterminate	float	Set to the indeterminate
		trapping value.
KnockoutLimit	float	Set to the knockout limit value.
OverPrintLimit	float	Set to the overprint limit value.
COLORMANAGER	•	•
ColorEngine	string	Set to Automatic, ColorSync,
ColorEngine	string	Kodak, or LogoSync.
BlackPointCompensation	Boolean	Set to true or false.
SourceSetup	string	Set to the name of the default
Sourcesetup	String	color source setup.
EnableAccessToPictureProfiles	Boolean	Set to true or false.
ProofOutPut	string	Set to the name of the default
FroorOutrut	Stillig	proofing color output setup.
		Set to Perceptual, Relative
 RenderingIntent	string	Colorimentric, Saturation,
Rendeningintent	string	Absolute Colorimetric, or
		Defined by Sources.
ColorManageVectorEPSPDF	Boolean	Set to true or false.
IncludeExistingVectorEPSPDF	Boolean	Set to true or false.
LAYERS	•	
Visible	Boolean	Set to true or false.
SuppressOutput	Boolean	Set to true or false.
Locked	Boolean	Set to true or false.
KeepRunaround	Boolean	Set to true or false.
FULLRESPREVIEW	•	
MaxCacheFolderSize	integer	Set to the maximum full res
MaxCacheroldersize	integer	preview cache folder size in MB.
DisableFullResPreviewsOnOpen	Boolean	Set to true or false.
INSTALLEDFONTS	•	
FontName		Include a <fontname> element</fontname>
	string	for each font loaded on the
		server.

updateprefsfromjj

The updateprefsfromjj request handler lets you update the rendering preferences for QuarkXPress Server using a file named "QuarkXPressServerJobJacket.xml" that is in the document pool or has been supplied as part of a multipart HTTP request.

To modify QuarkXPress Server renderer preferences, first upload a modified Job Jackets file named "QuarkXPressServerJobJacket.xml" to the document pool using addfile, then call this request handler.

This request handler sets the preferences for *all* renderers.

Namespace	updateprefsfromjj	
Response	The message "Preferences successfully set."	
IAlerts	Incorrect administration realm user name and password.	HTTP Error #401 This alert displays if you specify an

		invalid administrator user name
		and password. What to do: Use
		the user name and password set
		in the QuarkXPress Server
		Manager client Server
		Configuration dialog box.
Logs	See "Understanding logging."	
Example GET URL	http://localhost:8080/updateprefsfromjj	
	If a user name and password have been set in the Server	
Notes	Configuration dialog box, the browser requests that user name	
	and password when you submit a setrendererprefs parameter	
	request.	

Using the QXPSM SDK

The QXPSM (QuarkXPress Server Manager) SDK lets you create applications that communicate with QuarkXPress Server Manager in a variety of languages, including the following:

- .NET
- Java
- Objective-C

The QXPSM SDK includes the following folders:

- Documentation: Includes Javadoc for the classes in the Java SDK.
- Extensibility: Includes the Extensibility tool, for extending QuarkXPress Server Manager. For more information, see "Extending QuarkXPress Manager."
- Samples: Includes sample applications in ASP.NET, C#, Java, JSP, and Objective-C.
- WebServiceStubs: Includes remoting stubs for .NET (C#), Java, and Objective-C.
- To use the QXPSM SDK in ASP.NET/Visual C#, you must have the .NET 3.5/4.0 framework and development environment (Visual Studio).

Writing a Java QXPSM client

To write a QuarkXPress Server Manager client in Java:

1. Include the QXPSM stub jar file in the project classpath. This jar file can be found at the following location:

```
[QXPSM_Home]/XDK/WebServiceStubs/java/qxpsm-webservicestubs.jar
```

2. Include all client-side third-party-dependent jar files in the project classpath. These can be found at the following location:

```
[QXPSM_Home]/XDK/WebServiceStubs/java/dependencies
```

3. Get a reference to the RequestService:

```
RequestService requestService = new RequestServiceStub(
    "http://[server]:[port]/qxpsm/services/RequestService");
```

4. Get a reference to the AdminService:

```
AdminService adminService = new AdminServiceStub(
"http://[server]:[port]/qxpsm/services/AdminService");
```

5. Use these two services to make requests.

For sample code, see the following topics.

→ If QuarkXPress Server Manager is running over SSL, the client-side application must also use SSL. Invoke NoValidationTrustProvider.install(), where install() is the static method of the Java class NoValidationTrustProvider (provided with the Java samples).

Java sample: Deconstructing a project

```
QRequestContext qRequestContext = new QRequestContext();
qRequestContext.setDocumentName("MyDoc.qxp");
// Create XML Request
XMLRequest xmlRequest = new XMLRequest();
qRequestContext.setRequest(xmlRequest);
// Get reference to RequestService
RequestService service = new RequestServiceStub(
   "http://<server>:<port>/qxpsm/services/RequestService");
//Process Request using request service
QContentData data = service.processRequest(qRequestContext);
String deconstructXml = data.getTextData();
```

Java sample: Rendering a PDF

```
QRequestContext qRequestContext = new QRequestContext();
qRequestContext.setDocumentName("MyDoc.qxp");
// Setting responseAsURL to true generates the response as a URL
qRequestContext.setResponseAsURL(true);
// Create the PDFRenderRequest
PDFRenderRequest pdfRenderRequest = new PDFRenderRequest();
qRequestContext.setRequest(pdfRenderRequest);
// Get reference to RequestService
RequestService service = new RequestServiceStub(
   "http://<server>:<port>/qxpsm/services/RequestService");
// Process request using RequestService
QContentData data = service.processRequest(qRequestContext);
// Get URL from which resulting PDF can be fetched
String pdfUrl = data.getResponseURL();
```

Java sample: Chained request

```
QRequestContext qRequestContext = new QRequestContext();
qRequestContext.setDocumentName("Project.qxp");
// QXP doc render request
QuarkXPressRenderRequest qxpreq = new QuarkXPressRenderRequest();
// Save as request that saves the file
SaveAsRequest saveAsRequest= new SaveAsRequest();
```

Java sample: AddFile request

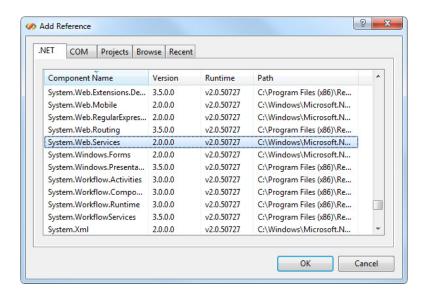
This code snippet shows how to upload a file using a QuarkXPess Server Manager servlet request that uses the Apache HTTPClient 3.1 library.

```
File file = new File("C:/FileToUpload.qxp");
// Create a post method to add file through QXPSM servlet request
PostMethod method = new PostMethod(
   "http://[server]:[port]/qxpsm/request/addfile/"+
file.getName());
try {
   // File stream passed as 'uploadFile' parameter to QXPSM
  FilePart part = new FilePart("uploadFile", file);
  part.setContentType("multipart/form-data");
  Part[] parts = { part };
  method.setRequestEntity(new MultipartRequestEntity(parts,
method.getParams()));
   HttpClient client = new HttpClient();
   int status = client.executeMethod(method);
   if (status == HttpStatus.SC OK) {
      System.err.println("Upload complete..");
   } else {
     System.err.println("Upload failed, response=" +
HttpStatus.getStatusText(status));
} catch (Exception ex) {
  System.err.println("Error: " + ex.getMessage());
} finally {
  method.releaseConnection();
```

Writing a .NET QXPSM client

To write a QuarkXPress Server Manager client in .NET:

- 1. Add a reference to the QuarkXPress Server Mananger .NET Web service stubs. The "QXPSMWebServiceStubs.dll" file can be found at the following location: [QXPSM_Home]/XDK/WebServiceStubs/dotnet/QXPSMWebServiceStubs.d 11
- 2. Add a reference to Microsoft's System. Web. Services library.



Add Reference dialog box

3. Get a reference to the RequestService:

```
RequestService requestService = new RequestService();
requestService.Url =
"http://<server>:<port>/qxpsm/services/RequestService";
```

4. Get a reference to the AdminService:

```
AdminService adminService = new AdminService();
adminService.Url =
"http://<server>:<port>/qxpsm/services/AdminService";
```

5. Use these two services to make requests.

For sample code, see the following topics.

→ If QuarkXPress Server Manager is running over SSL, the client-side application must also use SSL. Define a server certificate validation callback during application initialization using code like the following:

```
Imports System.Net
Imports System.Net.Security
Imports System.Security.Cryptography.X509Certificates
ServicePointManager.ServerCertificateValidationCallback +=
delegate(
  object senders,
  X509Certificate certificate,
   X509Chain chain,
   SslPolicyErrors sslPolicyErrors)
   return true;
```

.NET sample: Deconstructing a project

```
QRequestContext qRequestContext = new QRequestContext();
qRequestContext.documentName = "MyDoc.qxp";
// Create XML Request
XMLRequest xmlRequest = new XMLRequest();
qRequestContext.request = xmlRequest;
// Get reference to RequestService
```

```
RequestService service = new RequestService();
service.Url =
"http://[server]:[port]/qxpsm/services/RequestService";
// Process request using RequestService
QContentData data = service.processRequest(qRequestContext);
String deconstructXml = data.textData;
.NET sample: Rendering a PDF
QRequestContext qRequestContext = new QRequestContext();
qRequestContext.documentName = "MyDoc.qxp";
// Setting responseAsURL to true generates the response as a URL
qRequestContext.responseAsURL = true;
// Create the PDFRenderRequest
PDFRenderRequest pdfRenderRequest = new PDFRenderRequest();
qRequestContext.request = pdfRenderRequest;
// Get reference to RequestService
RequestService service = new RequestService();
service.Url =
"http://[server]:[port]/qxpsm/services/RequestService";
// Process request using RequestService
QContentData data = service.processRequest(qRequestContext);
// URL from which resulting PDF can be fetched
String pdfUrl = data.responseURL;
.NET sample: Chained request
QRequestContext qRequestContext = new QRequestContext();
qRequestContext.documentName = "Project.qxp";
// QXP doc render request
QuarkXPressRenderRequest qxpreq = new QuarkXPressRenderRequest();
// Save as request that saves the file
SaveAsRequest saveAsRequest= new SaveAsRequest();
saveAsRequest.newName = "NewDoc.qxp";
qxpreq.request = saveAsRequest;
qRequestContext.request = qxpreq;
// Get reference to RequestService
RequestService service = new RequestService();
service.Url =
"http://[server]:[port]/qxpsm/services/RequestService";
// Process the request
service.processRequest(qRequestContext);
If made from QuarkXPress Server, this request would look like this:
http://[server]:[port]/saveas/qxpdoc/Project.qxp?newname="NewDoc.
```

Writing an Objective-C client for Mac OS or iOS

To write a QuarkXPress Server Manager client in objective C for Mac OS or iOS:

qxp"

1. Include the QuarkXPress Server Manager stub header files path in the header search paths. These files can be found at the following location:

```
[QXPSM Home]/XDK/WebServiceStubs/objective-c/include
```

- 2. Include the Axis2c header files path in the header search paths. These header files can be found at the following location:
 - Mac OS: [QXPSM Home]/XDK/WebServiceStubs/objectivec/lib/i86 64/axis2c/include
 - iOS: [QXPSM Home]/XDK/WebServiceStubs/objectivec/lib/arm/axis2c/include
- 3. Include the QuarkXPress Server Manager stub libraries in the library search paths. These libraries can be found at the following locations:

Mac OS:

```
[QXPSM Home]/XDK/WebServiceStubs/objective-c/lib/i86 64/
    c/libQXPSMSoapCBindings.a
    cpp/libQXPSMSoapCppBindings.a
    objc/libQXPSMSoapObjCBindings.a
iOS:
[QXPSM Home]/XDK/WebServiceStubs/objective-c/lib/i86 64/
    c/libQXPSMSoapCBindings.a
    cpp/libQXPSMSoapCppBindings.a
    objc/libQXPSMSoapObjCBindings.a
```

4. Create an instance of QXPSMServiceManager. (QXPSMServiceManager is an Axis2c-based factory for QXPSM Web services stubs. It maintains shared instances of stubs corresponding to different QXPSM Web services.)

Initialise QXPSMServiceManager using setupForHost, with the required parameters:

- Host: Host name of QXPSM server.
- port: Web port configured at the server for HTTP (or HTTPS) communication.
- logFilePath: Location where Axis2 can generate a log file.
- logLevel: Number specifying log level for Web service communication (0 = critical, 1 = error, 2 = warning, 3 = info, 4 = debug, 5 = user-level debug message, 6 = trace).
- axis2Home: Client side Axis2 home folder location.
- useHttps: Set to true for secure API communication with QXPSM server
- serverCertificatePath: Certificate file path . For a non-secured connection, this argument is ignored.

For example:

```
[[QXPSMServiceManager sharedInstance]
   setupForHost:server port:port
    logFilePath:axisLogFile logLevel:axisLogLevel
axis2Path:axis2Home
   useHttps:usehttps serverCertificatePath:certFilePath];
```

- **5.** Initialise QXPSMServiceManager using setupForHostWithProxy, with the required parameters:
 - Host: Host name of QXPSM server.
 - port: Web port configured at server for HTTP (or HTTPS) communication.
 - logFilePath: Location where Axis2 can generate a log file.
 - logLevel: Number specifying log level for Web service communication.
 - axis2Home: Client side Axis2 home folder location.
 - useHttps: Set to true for secure API communication with QXPSM server.
 - serverCertificatePath: Certificate file path. For a non-secured connection, this argument is ignored.
 - proxyHost: Host name of HTTP proxy. If null, proxy is not used.
 - proxyPort: HTTP proxy port number.
 - username: User name for proxy authentication. If null, no authentication is performed.
 - password: Password for HTTP proxy authentication.

For example:

```
[[QXPSMServiceManager sharedInstance]
   setupForHost:server port:port
   logFilePath:axisLogFile logLevel:axisLogLevel
axis2Path:axis2Home
   useHttps:usehttps serverCertificatePath:certFilePath
   proxyHost:proxyHost proxyPort:proxyPort
   username:proxyUserName password:proxyPassword];
```

6. Get a reference to the RequestService using <code>QXPSMServiceManager</code> and perform the required API invocations on the referenced RequestService. For example:

```
[[QXPSMServiceManager requestService]
  getXPressDomForDocumentName:documentName];
```

7. To invoke a QXPSM service, get a reference to the AdminService using QXPSMServiceManager and perform the required API invocations on the referenced AdminService. For example:

```
[[QXPSMServiceManager requestService]
  getXPressDomForDocumentName:documentName];
```

For sample code, see the following topics.

Objective-C sample: Deconstructing a project

```
QXPSMQRequestContext *qRequestContext =
    [[[QXPSMQRequestContext alloc] init] autorelease];
[qRequestContext setDocumentName:@"MyDoc.qxp"];

// Create XML Request
QXPSMXMLRequest *xmlRequest = [[[QXPSMXMLRequest alloc] init]
autorelease];
[qRequestContext setRequest:xmlRequest];
```

```
// Get reference to RequestService and process request
QXPSMQContentData *data = [[QXPSMServiceManager requestService]
   processRequestForRequestCmd:qRequestContext];
NSString *deconstructXml = [data getTextData];
```

Objective-C sample: Rendering a PDF

```
QXPSMQRequestContext *qRequestContext =
   [[[QXPSMQRequestContext alloc] init] autorelease];
[qRequestContext setDocumentName:@"MyDoc.qxp"];
// Setting responseAsURL to true generates the response as a URL
[qRequestContext setResponseAsURL:YES];
// Create the PDFRenderRequest
QXPSMPDFRenderRequest *pdfRenderRequest =
   [[[QXPSMPDFRenderRequest alloc] init] autorelease];
[qRequestContext setRequest:pdfRenderRequest];
// Get reference to RequestService and process request
QXPSMQContentData *data = [[QXPSMServiceManager requestService]
  processRequestForRequestCmd:qRequestContext];
// URL from which resulting PDF can be fetched
NSString *pdfUrl = [data getResponseURL];
```

Objective-C sample: Chained request

```
QXPSMQRequestContext *qRequestContext =
   [[[QXPSMQRequestContext alloc] init] autorelease];
[qRequestContext setDocumentName:@"MyDoc.qxp"];
//QXP doc render request
QXPSMQuarkXPressRenderRequest *qxpReq =
   [[[QXPSMQuarkXPressRenderRequest alloc] init] autorelease];
//Save as request that saves the file.
QXPSMSaveAsRequest *saveAsRequest = [[[QXPSMSaveAsRequest alloc]
init] autorelease];
[saveAsRequest setNewname:@"NewDoc.qxp"];
[qxpReq setRequest:saveAsRequest];
[qRequestContext setRequest:qxpReq];
//Get reference to RequestService and process request
[[QXPSMServiceManager requestService]
processRequestForRequestCmd:qRequestContext];
If made from QuarkXPress Server, this request would look like this:
http://[server>]:[port]/saveas/qxpdoc/MyDoc.qxp?newname="NewDoc.q
```

xp"

Extending QuarkXPress Server Manager

Custom XTensions written for XPressServer can be used in the QuarkXPress Server Manager Web service interface in two ways:

- Using the Extensibility tool in the QXPSM SDK. With this tool, you can easily update QXPSM Web service objects to include objects corresponding to custom request handlers and their parameters.
- Using the RequestParameters class. This is a generic request class that can be used in lieu of any class, existing or otherwise.

The prerequisites for using the Extensibility tool are as follows:

- JDK 1.6
- Apache ANT 1.6.5 or later
- Perl 5.8.4 or later with the XML::DOM module
- Third-party libraries (available at [QXPSM application folder]\Server\dependencies)
- QXPSM libraries (avaiable at [QXPSM application folder]\Server\lib
- Microsoft .NET Framework 3.5 or later (required only for generating .NET stubs)

The Extensibility tool is located in the XDK/Extensibility folder. For instructions on how to use it, see the following topics.

Writing special request handlers

If you need to perform custom actions on specific flags, you need to define special flags and write handlers for them. These flags can then be passed as GET parameters to the servlet, as additional <code>QParam</code> parameters in <code>QCommand</code> (executed using <code>QManagerSvc.executeCommand</code>), or as additional <code>NameValueParam</code> parameters in a derived class of <code>QRequest</code> using <code>RequestService.processRequest</code>. The servlet will automatically create parameters out of these flags and set these in the command before sending it for execution.

To handle these special flags, you can write your request handler derived from the class <code>QRequestHandler</code>. You can then insert this new handler class anywhere in the chain of responsibility pattern, starting with <code>QDocProviderImpl</code> and ending with <code>QHostRequestHandler</code>.

Try not to change end points. In your handler implementation, handle your special flags, then either return a response after handling or pass the control to the successor for further handling.

Implementing a custom load balancer

To implement a custom load balancer, first implement the <code>com.quark.manager.lb.QLoadBalancer</code> interface. To use this interface, add a reference to "managerengine.jar" to your project.

This interface method contains the following methods:

getLoadBalancerAlgorithm		
Signature	<pre>public String getLoadBalancerAlgorithm();</pre>	
	Returns the name of the algorithm that is	
Description	mapped to the current load balancer while	
	loading the server.	
Returns	The algorithm name used to load-balance the list	
Returns	of hosts.	
getLoadBalancerDescription		
Signature	public String getLoadBalancerDescription();	
Description	Gets the description of the load-balancing	
Description	algorithm so it can be displayed in the	

	QuarkXPress Server Manager client.	
Returns	Description of the load balancer.	
useFileInfo		
Signature	public Boolean useFileInfo();	
	Gets a flag that indicates whether the load	
Description	balancer uses file information to decide on	
	which host to use.	
Determina	True if the fileinfo command should be fired	
Returns	before rendering, otherwise false.	
getAvailableHost	•	
	public QHostProxy	
Signature	getAvailableHost(QHostProxy[] hosts,	
	QCommand command);	
Description	Gets an available host out of the provided list of	
	hosts to execute the specified command.	
	hosts: List of hosts that should be scanned for	
Parameters	the most eligible host.command: Command for	
	which host is being searched.	
Returns	Available host. Can be used for next request.	

Next:

- 1. Make a jar for the load balancer.
- 2. Deploy the jar to the following folder: [QXPSM HOME] / dependencies
- 3. To configure "ManagerContainerConfig.xml" for bean mapping, first navigate to $[QXPSM_HOME]/conf.$
- **4.** Open the "ManagerContainerConfig.xml" file and look for the XML tag bean whose id has the value Configuration Manager.
- 5. Within that tag find the property name availableLoadBalancers.
- **6.** In the tag, add the following: <ref bean=[your newbeanID]/>
- 7. Above this ConfigureManager tag, define the bean ID as your new bean ID: <bean id=[your newbeanID] class=[yourLoadBalancerClass]/>
- **8.** Restart the Tomcat server.
- 9. Log on with the QuarkXPress Server Manager client and choose Global Setting > Load Balancer Method > Choose Load Balancer.
- **10.** Locate your new load balancer method, then click **Save**.

Keep document open (sessions)

In early versions of QuarkXPress Server Manager, the software opened a QuarkXPress project, performed a function, and then closed the project. To avoid the delays involved in repeatedly opening and closing a QuarkXPress project, QuarkXPress Server Manager can now keep QuarkXPress projects open until they need to be closed.

To keep projects open for a set period of time, create a session and then open one or more projects in that session. You can specify a timeout interval while creating the

session. If the session is not used during the interval, all open projects in that session are closed.

An open project can be modified and saved at any time during the process. An open project can even be saved at another location relative to the QuarkXPress Server document pool. You can also create a new project and keep it open.

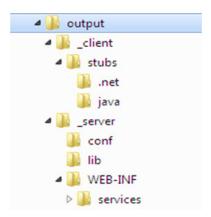
Using the Extensibility tool

To compile and generate artifacts of custom objects:

- Update the file [QXPSM-XDK]/Extensibility/rogenerator/ManagerSDK.xml by adding the definitions of any custom objects being created by QuarkXPress Server. Make sure you do not use existing class names.
- **2.** Open the file "Generate.command"/"Generate.bat" in a text editor and make the following changes:
 - Set the value of QXPSM_LIB_DIR to the path of the QXPSM libraries. For example: @set QXPSM_LIB_DIR="C:\Quark\QuarkXPressServer Manager\Server\lib"
 - Set the value of QXPSM_DEPENDENCIES_DIR to the path of the third-party libraries. For example: @set

 QXPSM_DEPENDENCIES_DIR="C:\Quark\QuarkXPressServer

 Manager\Server\dependencies"
 - Set the value of VS_COMMON_TOOLS to the path of the Visual Studio common tools. For example: @set VS_COMMON_TOOLS="C:\Program Files\Microsoft Visual Studio 9.0\Common7\Tools\"
 - Set the value of <code>QXPSM_OUTPUT_DIR</code> to the output location. For example: <code>QXPSM_OUTPUT_DIR= "c:\output"</code>
- **3.** Execute the file "Generate.command"/"Generate.bat". The resulting output uses the following structure.



- **4.** To use the generated artifacts:
 - Copy the contents of [output location]/_server/conf to [QXPSM application folder]/Server/conf.
 - Copy the contents of [output location]/_server/lib to [QXPSM application folder]/Server/lib.

Restart QuarkXPress Server Manager.

Compatible client side web-service stubs, for both Java and .NET can be found at [output location] / client/stubs

Understanding ManagerSDK.xml

"ManagerSDK.xml" is used to generate client SDK classes for QuarkXPress Server requests. Each element in "ManagerSDK.xml" corresponds to a request handler, a render type, or an element in the DTD.

A client SDK class is generated for each element in the XML. Each property in the DTD and each parameter of the request handler or render type also corresponds to a unique element in the XML.

A Class variable is generated for each property, as follows.

- <Class>: One element for each SDK class generated. The class generated is derived from ORequest. Attributes are:
 - name: The name of the generated class.
 - namespace: The namespace recognized by QuarkXPress Server when this request class is translated into a QuarkXPress Server request.
 - description: A description of the class. Unless this value is null, the description forms the header of the generated class and is included in the generated API docs.
 - alias: The alias to be used as an element name if this request class is serialized to XML. For example, when the Project class is serialized to XML, the element used is Project.
 - serializeAs: Determines how the class is serialized. The valid values are:
 - nameValue indicates that all members of the class should be handled as name-value pairs in the request to QuarkXPress Server. (This is the default option in JPEGRenderRequest and ModifierStreamRequest.)
 - xml indicates that the class should be serialized as XML with the class name or alias as the element value. All of the fields of the class are serialized as child elements. If the field is a subclass of QRequest, it is processed recursively. If the field is an array, it must be an array of QRequest-derived classes.
 - mixed indicates that the class should be serialized as XML with the class name or alias as the element. All the primitive fields of the class are serialized as attributes. If the field is a subclass of QRequest, it is serialized as a child element and processed recursively. If the field is an array, it must be an array of QRequest-derived classes.
 - attribute indicates that the class should be serialized as XML with the class name or alias as the element. The class must be primitive. All such fields must be serialized as attributes of the element. Also, "value" fields must be serialized as values of the element. Valid only if the parent class has a serializeAs value of "xml" or "mixed."

- Attribute: One element for each class field.
 - name: The name of the generated class variable.
 - accessor: The name of the accessor that gets the property. If this value is null, the default accessor name is used. The default name is "get" + CamelCase(name) (for example, if the name of the property is "quality," the default accessor method is getQuality).
 - mutator: The name of the accessor that sets the property. If this value is
 null, the default mutator name is used. The default name is "set" +
 CamelCase(name) (for example, if the name of the property is "quality," the
 default mutator method is setQuality).
 - description: A description of the attribute. Unless this value is null, the
 description is included in variable headers and accessor and mutator headers
 and is included in generated API docs.
 - type: The type of the class variable. If this value is null, the default type (string) is used. If this is not a primitive data type, it should be defined as a separate Class element. If this attribute has a value of "reference," it means the class defined by name is a reference that will be used by a reference attribute in the same Class element. Before serialization, the referring values are set in this instance.
 - reference: Unless this attribute has a null value, during serialization the
 value of the field should be set in the reference class provided. Note that the
 reference class should be declared using "type=reference" as explained
 above.
 - readonly: If this value is true, this field is for read-only purposes and should be ignored during serialization.
 - hidden: If this value is true, this field should be generated as a private variable. As such, it would not be included in WSDL.
 - deprecated: If this value is true, this field has been deprecated, should not be used, is not supported, and will be removed in a future version of QuarkXPress Server.
 - cdata: If this value is true, the value of this field is to be wrapped in a cdata section before being sent to QuarkXPress Server. This is valid only if the field is "value". that is value of the element in modifier XML.
 - <others>: If any other attributes are defined, a class field with the name as
 <name>_<others> is created, and you can write your own implementation for it.

Using the RequestParameters class

RequestParameters is a generic request class that can be used in lieu of any class, existing or otherwise.

RequestParameters has a namespace property, which can be used to send any request. For example:

RequestParameters requestParameters = new RequestParameters();
requestParameters.setRequestNamespace("jpeg");

It also has an array of dynamic parameters, which can be used to parameterize the request. For example:

```
NameValueParam param = new NameValueParam();
param.setParamName("scale");
param.setTextValue("1");
requestParameters.setParams(new NameValueParam[]{param });
```

It can also be executed using the QuarkXPress Server Manager Web service API. For example:

```
QRequestContext qRequestContext = new QRequestContext();
qRequestContext.setRequest(requestParameters);
```

Sample applications

The topics below describe the sample applications distributed with QuarkXPress Server.

Sample applications: QXP Server Manager

These sample applications are available in the QuarkXPress Server installation package.

ASP.NET samples

This sample application consists of Web pages that demonstrate different ways the object model can be used to post QuarkXPress Server requests for various operations. To use this application:

- 1. Create a virtual directory (for example, "ClientSDKSamplesSite") in IIS.
- 2. Copy the sample from [QuarkXPress Server Manager application folder]\XDK\samples\asp.net\clientsdksamples and set the home path of the Web demo to the virtual directory.
- 3. Set the endpoint address for Web services calls in the "web.config" file like so: configuration - >appSettings - >add key="com.quark.qxpsm.RequestService" value= "End Point
- 4. Restart IIS.

Address"

5. In a browser, enter the following URL: http://<IIS Server Name>:<Port>/ClientSDKSamplesSite/Index.htm

C# samples

These samples show how to use C# to take advantage of bullets and numbering, callouts, and conditional styles with QuarkXPress Server requests transmitted via the QuarkXPress Server Manager Web services interface. They use .NET Web service stubs provided by the QuarkXPress Server Manager SDK.

The "AddFileRequest" sample shows how to make servlet requests to QuarkXPress Server Manager, instead of using QuarkXPress Server Manager Web service stubs. Web services use SOAP to pass data, and SOAP is not designed to transfer large

amounts of data, so Quark recommends using the servlet interface to upload and download files in a production environment.

Java samples

These samples show how to use Java to take advantage of bullets and numbering, callouts, and conditional styles with QuarkXPress Server requests transmitted via the QuarkXPress Server Manager Web services interface. They use Java Web service stubs provided by the QuarkXPress Server Manager SDK.

The "AddFileRequest" sample shows how to use the Apache HttpClient library to make servlet requests to QuarkXPress Server Manager, instead of using QuarkXPress Server Manager Web service stubs. Web services use SOAP to pass data, and SOAP is not designed to transfer large amounts of data, so Quark recommends using the servlet interface to upload and download files in a production environment.

JSP samples

These samples have been developed using JSP, for deployment in the same Web server as that of QuarkXPress Server Manager. They show how to make local calls to QuarkXPress Server Manager's RequestService to perform various tasks.

By default, these samples are deployed as a separate webapp named "clientsdksamples". You can access this webapp from the QuarkXPress Server Manager home page.

Objective-C samples

These samples show how to use Objective-C to make QuarkXPress Server requests via the Web services interface provided by QuarkXPress Server Manager. They demonstrate document rendering and modification under both Mac OS and iOS.

The "AddFileRequest" sample shows how to make servlet requests to QuarkXPress Server Manager, instead of using QuarkXPress Server Manager Web service stubs. Web services use SOAP to pass data, and SOAP is not designed to transfer large amounts of data, so Quark recommends using the servlet interface to upload and download files in a production environment.

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QuarkXPress Server Features

Dynamic Pagination and Flow

The *Evolved Mechanics* sample, demonstrating the flow automation constructs, can be downloaded from the QXPS Administration home page, using the **Download SDK and Samples** link.

There are three main division in the structure of any document:

- 1. the front page content
- 2. the body content
- 3. the back page content

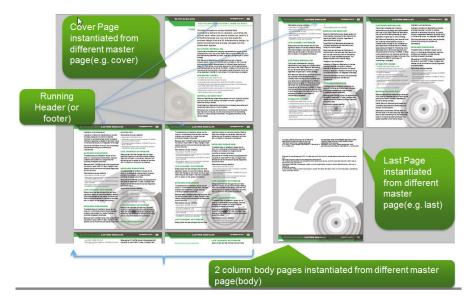
The Dynamic Pagination and Flow feature gives you the ability to define multiple page layouts in a single flow. The Page Sequences can be a logical section or a chapter comprised of a single flow. Different pages of a Page Sequence can be based on different master pages. Pages will be organized while adhering to defined constraints.

The following is a list of customer use cases that can be fullfilled using the new modifier XML markup:

- The ability to specify running headers and running footers.
- The ability to pre-define the sequence of the application of the available master pages on the various pages being created dynamically.
- The ability to express/segment the flow content into logical sections.
- Bulleted text, Section numbering, Text Styling, colors etc
- Components that are re-usable across multiple document types. For example, disclaimers and copy right notices.
- The ability to impose constraints on the page count (odd or even) per section, enabling you to automatically insert blank pages for print versions of documentation.
- The ability to specify the desired page numbering formats for various sections (for example, index or glossary pages having roman numerals).
- The ability to have repeatable interactivy aspects.
- The ability to present tablular content in various ways:
- inline

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- spanned across columns
- full width spanned
- full page rotated / un-rotated.
- The ability to format tables in the following various ways:
- horizontal and vertical
- gridlines
- · grouping headers
- shading rows and columns
- the inclusion of table notes with the table
- The ability to break content across pages along with headers.
- The ability to specify the placement of images and charts in the following scenarios:
- inline
- · spanned across columns
- full page
- The ability to specify a different Table of Contents for digital and print issues.



Example User Pagination Requirement

Dynamic Pagination and Flow Problem

Consider the following pagination requirement.

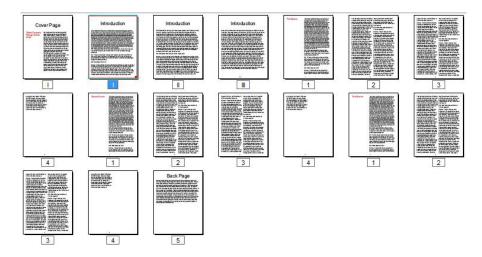
The template has 5 master pages:

- Cover a master page for the cover page
- Introduction a master page for introduction page(s)

- Section First Page a master page for the first page of each section (a section's cover page)
- Section Content a master page to be used for each page that has body content
- Back Page a master page for the back page (a back cover)

The pagination requirement is:

- 1. Cover
- 2. Introduction
- **3.** Multiple sections
 - Section First Page
 - Section Content
- 4. Back Page



Example User Pagination Requirement

Previously, when a desktop user created this document, he accomplished this manually by dragging and dropping the desired master pages onto each page. The user was not able to achieve the desired pagination using the automated dynamic publishing workflows (XML-> PDF or XML->iPad).

Dynamic Pagination and Flow Solution

The Dynamic Pagination and Flow feature introduced in the 9.5.1 release of QuarkXPress Server, solves this problem.

New Parts of the ModifierXML:

- 1. The MASTERPAGESEQUENCE element gives you the ability to describe the use and application of master pages by the QuarkXPress Server Modifier XML processor and further by its layout engine. It also allows the user to define the pagination pattern with a name.
- **2.** The PAGESEQUENCE element contains the actual flow content with reference to the MASTERPAGESEQAUENCE via a @MASTERPAGESEQUENEREF and a @MASTERPAGEREF respectively. Each PAGESEQUENCE element will have a certain non-variable static content segment (represented by STATICCONTENT)

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containing the content that is intended to be repeated across multiple flow pages.

Each PAGESEQUENCE has a child object STORY which acts as a container for the flow content containing multiple PARAGRAPH elements.

Each paragraph object holds richtext giving you the ability to apply a wide variety of styling.

3. The SINGLEMASTERPAGEREFERENCE element defines a sequence in which a particular master page will be applied to a singles page in a page sequence. It contains the name of the master page in the QuarkXPress template to be used. The given master page is applied to one page of a page sequence. This is useful for front matter, back matter and section start pages.

The following is an example of the use of the SINGLEMASTERPAGEREFERENCE

This applies the A-MasterAmaster page to the first page, B-MasterB master page to the second page, and the C-MasterC master page to the third page and onwards.

4. The REPEATABLEMASTERPAGEREFERENCE element defines a sequence in which a master page will be applied to multiple pages in a page sequence. It contains the name of the master page in the QuarkXPress template to be used. This is useful for constructing runs of identical pages and causes a bounded or unbounded sequence of pages to be generated using the same master page.

This element is a super set of the SINGLEMASTERPAGEREFERENCE element. It allows an application of a particular master page upto n number of pages using the MAXREPEATS attribute.

The following is an example of the use of the

This applies the B-MasterB master page to the first 5 pages. From the sixth page onward, the C-MasterC master page will be applied.

5. The REPEATABLEMASTERPAGEALTERNATIVES element defines a master page along with conditions that must be satisfied to apply the given master page on a page. It contains one or more CONDITIONALMASTERPAGEREFERENCE elements that define the conditions.

This is a super set of the first two master page sequences. It allows an application of a particular master page on even pages, a different master page on odd pages and a different master page on first and last pages.

The following is an example of the use of the

REPEATABLEMASTERPAGEALTERNATIVES.

This applies the D-MasterD master page to the first page, the A-MasterA master page to all even numbered pages, the C-MasterC master page to all odd numbered pages, and the B-MasterB master page to the last page.

- **6.** The CONDITIONALMASTERPAGEREFERENCE element gives you the ability to specify the master page along with the conditions that must be satisfied to apply the given master page on a page. The following conditions may be specified:
 - a page's position within a sequence
 - the odd or even page number property
 - whether or not a particular page is blank

contains the actual flow content with reference to the MASTERPAGESEQAUENCE via a @MASTERPAGESEQUENEREF and a @MASTERPAGEREF respectively. Each PAGESEQUENCE element will have a certain non-variable static content segment (represented by STATICCONTENT) containing the content that is intended to be repeated across multiple flow pages.

- **7.** The STATICCONTENT element gives you the ability to specify content chunks that are intended to be repeated across multiple flow pages. For example, running headers or footers.
- **8.** The SECTIONNUMBERFORMAT element gives you the ability to specify the page number format.

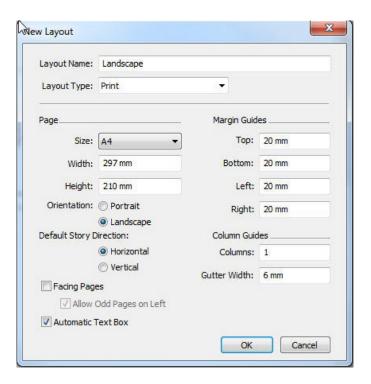
```
<PROJECT>
<LAYOUT>
  <ID UID="1"/>
  <MASTERPAGESEQUENCE NAME="APSMasterPages">
    <REPEATABLEMASTERPAGEALTERNATIVES>
      <CONDITIONALMASTERPAGEREFERENCE POSITION="FIRST" NAME="C-</pre>
ArticleFirst"/>
      <CONDITIONALMASTERPAGEREFERENCE POSITION="REST" NAME="D-</pre>
ArticleRest"/>
      <CONDITIONALMASTERPAGEREFERENCE POSITION="LAST" NAME="E-</pre>
ArticleLast"/>
      <conditionalmasterpagereference blankornotblank="blank"</pre>
       NAME="F-BlankMaster"/>
    </REPEATABLEMASTERPAGEALTERNATIVES>
  </MASTERPAGESEOUENCE>
  <PAGESEQUENCE MASTERPAGESEQUENCEREF="APSMasterPages"</pre>
FORCEPAGECOUNT="ENDONEVEN">
    <SECTIONNUMBERFORMAT FORMAT="NUMERIC" INITIALPAGENUMBER="1"/>
```

```
<STATICCONTENT>
     <BOX>
       <ID NAME="logo"/>
       <TEXT>
         <STORY>
           <PARAGRAPH PARASTYLE="Article SubHead">
             <RICHTEXT BOLD="true">Article Sub heading goes here
</RICHTEXT>
           </PARAGRAPH>
         </STORY>
        </TEXT>
     </BOX>
      <BOX>
       <ID NAME="title"/>
        <TEXT>
          <STORY>
            <PARAGRAPH MERGE="FALSE" PARASTYLE="NORMAL">
             <FORMAT ALIGNMENT="RIGHT"/>
              <RICHTEXT BOLD="true" COLOR="White" SIZE="14">
               Automation System</RICHTEXT>
           </PARAGRAPH>
          </STORY>
       </TEXT>
     </BOX>
   </STATICCONTENT>
   <STORY BOXNAME="flow">
     <PARAGRAPH PARASTYLE="Article Opening Paragraph">
     <PARAGRAPH PARASTYLE="Article Section Start">
      <PARAGRAPH PARASTYLE="Article Body Copy">
      <PARAGRAPH PARASTYLE="Article Body Copy">
     <PARAGRAPH PARASTYLE="Article Body Copy">
     <PARAGRAPH PARASTYLE="Article Section Start">
     <PARAGRAPH PARASTYLE="Article Body Copy">
     <PARAGRAPH PARASTYLE="Article Body Copy">
   </STORY>
 </PAGESEQUENCE>
</LAYOUT>
</PROJECT>
```

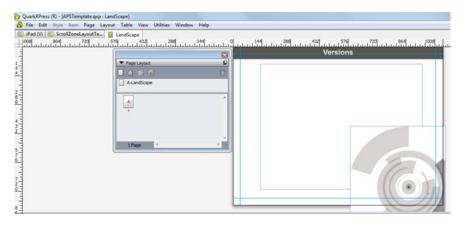
Landscape pagination

The support for mixed orientation in the PDF output gives you the ability to define different page orientations in a single flow. This can be accomplished by using the PAGESEQUENCE element of the ModifierXML. The PAGESEQUENCE element contains a new attribute ORIENTATION which allows you to specify a page orientation for each page in the flow. Setting the value of ORIENTATION to *Landscape* would cause the contents of the STORY element of the page sequence to flow into a Landscape layout made available in the template. The following steps allow you to achieve mixed orientation pages in the PDF output:

- 1. Add a landscape layout in the template, giving the page width and height as:
 - Page Height = The width of a page in portrait mode
 - Page Width = The height of a page in portrait mode



- 2. Designate the new layout as the Landscape layout by giving it the name Landscape.
- 3. Use this new layout to create pages with the Landscape orientation.



Creating pages with the Landscape layout

The following is an example of the MASTERPAGESEQUENCE to be used for Landscape mode.

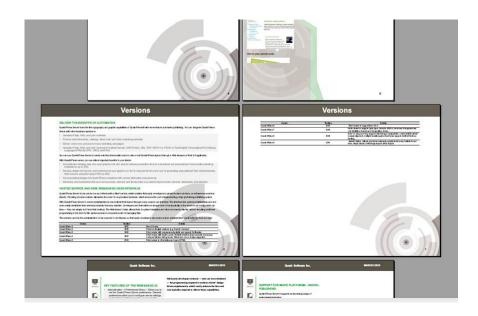
```
<MASTERPAGESEQUENCE NAME="Landscape">
  <SINGLEMASTERPAGEREFERENCE NAME="A-</pre>
Landscape"></SINGLEMASTERPAGEREFERENCE>
</MASTERPAGESEQUENCE>
```

The following is an example of the PARAGRAPH element with the PARASTYLE attribute set to flow. This cause the landscape flow content under the PAGESEQUENCE that has ORIENTATION set to LANDSCAPE to be flown into the flow boxes in the layout with the name Landscape.

```
<PARAGRAPH PARASTYLE="Flow">
 <RICHTEXT BACKGROUNDCOLOR="yellow">Text here</RICHTEXT>
</PARAGRAPH>
```

The following is an example of a nested PAGESEQUENCE depicting Landscape mode. The landscape flow content under the PAGESEQUENCE that has ORIENTATION set to *LANDSCAPE* is flown into the flow boxes in the layout with the name *Landscape*.

```
<PAGESEQUENCE ORIENTATION="LANDSCAPE"MASTERREFERENCE="Landscape">
  <STORY BOXNAME="flow">
    <PARAGRAPH PARASTYLE="Title">
      <RICHTEXT>Deliver the Benefits of Automation</RICHTEXT>
    </PARAGRAPH>
    <PARAGRAPH PARASTYLE="Flow">
      <RICHTEXT>Text Here</RICHTEXT>
    </PARAGRAPH>
    <PARAGRAPH PARASTYLE="Bulletstyle">
    <PARAGRAPH PARASTYLE="Bulletstyle">
    <PARAGRAPH PARASTYLE="Bulletstyle">
    <PARAGRAPH PARASTYLE="Bulletstyle">
    <PARAGRAPH PARASTYLE="Flow">
    <PARAGRAPH PARASTYLE="Flow">
    <PARAGRAPH PARASTYLE="Bulletstyle">
    <PARAGRAPH PARASTYLE="Bulletstyle">
    <PARAGRAPH PARASTYLE="Bulletstyle">
    <PARAGRAPH PARASTYLE="Bulletstyle">
    <PARAGRAPH PARASTYLE="Title">
    <PARAGRAPH PARASTYLE="Flow">
    <PARAGRAPH PARASTYLE="Flow">
    <PARAGRAPH PARASTYLE="Flow">
    <PARAGRAPH/>
    <PARAGRAPH/>
    <INLINETABLE TABLESTYLEREF= "quark">
      <COLGROUP>
      <THREAD>
        <TROW>
          <ENTRY>
            <PARAGRAPH PARASTYLE="TableCOntent">
              <FORMAT ALIGNMENT= "CENTERED"/>
              <RICHTEXT>Text Here</RICHTEXT>
            </PARAGRAPH>
          </FNTRY>
          <ENTRY>
            <PARAGRAPH PARASTYLE="TableContent">
              <FORMAT ALIGNMENT= "CENTERED"/>
              <RICHTEXT>Text Here</RICHTEXT>
            </PARAGRAPH>
          </ENTRY>
        </THROW>
      </THREAD>
    </INLINETABLE>
  </STORY>
</PAGESEQUENCE>
<!--Portrait Mode Resumed-->
<PARAGRAPH PARASTYLE="Title">
 <RICHTEXT>Text here/RICHTEXT>
</PARAGRAPH>
```



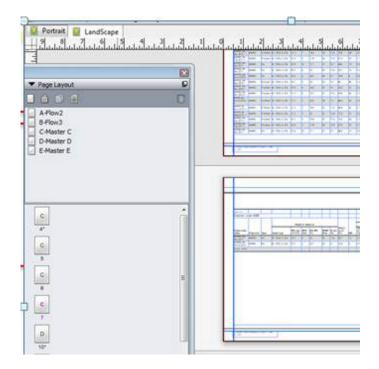
Flowing content onto pages created with the Landscape layout

The following is an example of a PROJECT element. The landscape flow content under the PAGESEQUENCE that has ORIENTATION set to *LANDSCAPE* is flown into the flow boxes in the layout with the name *Landscape*.

```
<PROJECT>
 <TABLESTYLE>
 <TABLESTYLE>
 <LAYOUT>
   <ID UID="1"/>
   <MASTERPAGESEQUENCE NAME= "Cover">
   <MASTERPAGESEQUENCE NAME= "Flow">
   <MASTERPAGESEQUENCE NAME= "Flow2">
     <SINGLEMASTERPAGEREFERENCE NAME= "A-Flow2"/>
   </MASTERPAGESEQUENCE>
   <MASTERPAGESEQUENCE NAME= "Flow3">
     <SINGLEMASTERPAGEREFERENCE NAME= "B-Flow3"/>
   <MASTERPAGESEQUENCE NAME= "Disclaimer">
   <PAGESEQUENCE MASTERREFERENCE="Cover">
   <PAGESEQUENCE MASTERREFERENCE="Flow">
   <PAGESEQUENCE MASTERREFERENCE="Flow">
   <PAGESEQUENCE MASTERREFERENCE="Flow2" ORIENTATION=</pre>
"LANDSCAPE">
     <STORY BOXNAME= "StoryFlow2">
       <INLINETABLE TABLESTYLEREF= "Rating">
     </STORY>
   </PAGESEQUENCE>
   <PAGESEQUENCE MASTERREFERENCE="Flow">
   <PAGESEQUENCE MASTERREFERENCE="Flow">
   <PAGESEQUENCE MASTERREFERENCE="Flow3" ORIENTATION=</pre>
"LANDSCAPE">
     <STATICCONTENT>
     <STORY BOXNAME= "StoryFlow2">
       <INLINETABLE TABLESTYLEREF= "NoGrids">
     </STORY>
   </PAGESEQUENCE>
   <PAGESEQUENCE MASTERREFERENCE="Flow3" ORIENTATION=</pre>
"LANDSCAPE">
     <STATICCONTENT>
     <STORY BOXNAME= "StoryFlow2">
       <INLINETABLE TABLESTYLEREF= "NoGrids">
     </STORY>
```

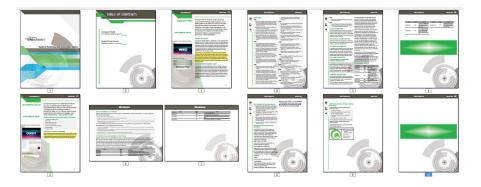
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```
</pagesequence>
  <pagesequence masterreference="Disclaimer">
  </layout>
```



The landscape flow content under the PAGESEQUENCE that has ORIENTATION = LANDSCAPE is flown into the flow boxes in the layout with the name Landscape.

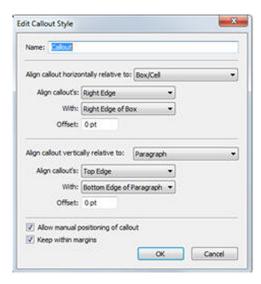
The following is the resultant PDF from the above example:



A PDF with a mixed orientation.

Automatic callout stacking

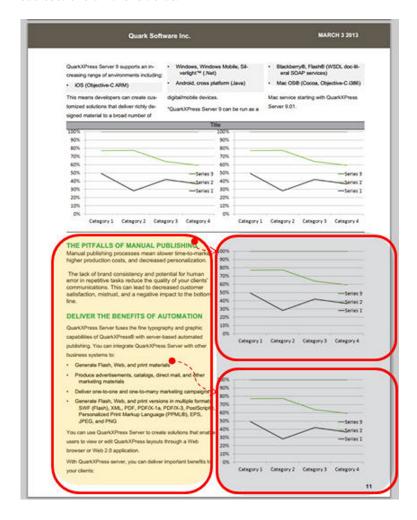
Automatic callout stacking allows for the tiling of multiple callouts. You use the CALLOUTANCHOR element to automate your layout design. The CALLOUTANCHOR@CALLOUTSTYLE requires a callout style to be created in the template. The callout style defines the placement of the graphics object.



Edit Callout Style dialog box

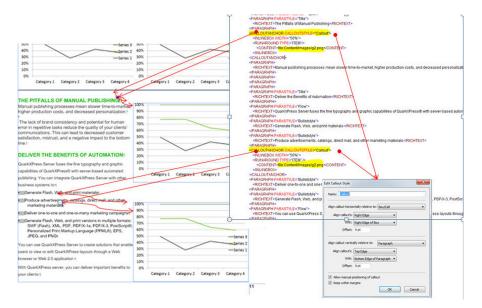
Automatic callout stacking example

In the following example the 2 graphic objects on the right side are related to the sub-sections on the left side.



Example Automatic Callout Stacking

The callout anchors applied with the same callout style will be stacked automatically.



Result Automatic Callout Stacking

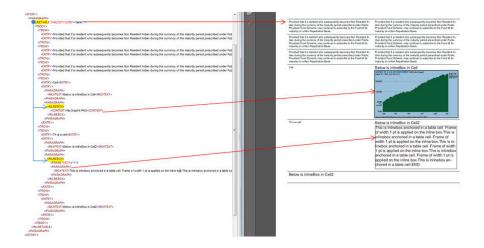
Nested anchoring

Nested anchoring allows you to anchor an item within another anchored item. This allows for nesting of INLINEBOX and INLINETABLE elements.

Nested anchoring examples

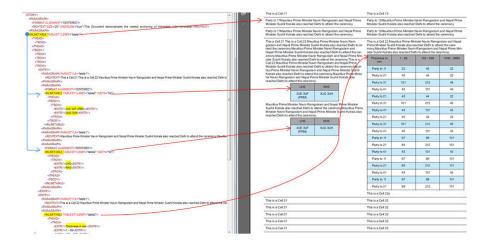
Nesting an INLINEBOX within an INLINEBOX

Nesting an INLINEBOX within an ENTRY of an INLINETABLE

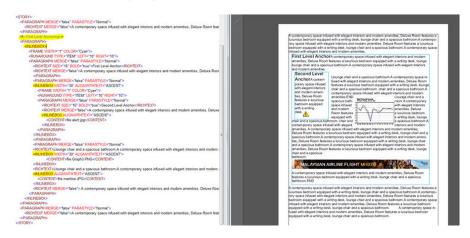


An INLINEBOX within an ENTRY of anINLINETABLE

Nesting an INLINETABLE within an INLINETABLE

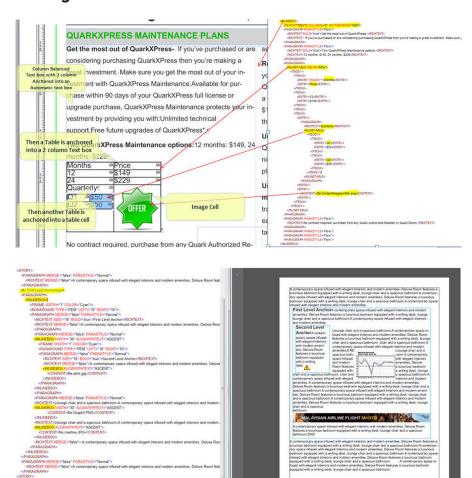


An INLINETABLE within an INLINETABLE



An INLINETABLE within an INLINETABLE

Nesting an INLINETABLE within an INLINEBOX



An INLINETABLE within an INLINEBOX

Modifier schema (annotated)

The topics below provide an annotated version of the Modifier schema, which is available both as a DTD and in XML Schema format. Details are provided for how to form XML code that uses the construct namespace, modify parameter, and xml namespace. The XML sent to or from these functions is case-sensitive and validated by the Modifier schema, thereby providing well-formed XML code that is compatible between each function.

In the following topics:

- The "Construct" column refers to constructing a QuarkXPress project using the construct namespace.
- The "Modify" column refers to modifying a QuarkXPress project using the modify parameter.
- The "Deconstruct" column refers to deconstructing a QuarkXPress project using the xml namespace.

To conserve space, the notation used in the following topics is DTD notation. See the "Modifier.xsd" file for XML Schema definitionss.

→ Measurement values do not require units. For example, "25pt" should be submitted as "25".

Entities (Modifier DTD)

Element type	Constru ct	Modify	Decons truct
ENTITY sot "" ENTITY etx "" ENTITY eot</td <td>entities</td> <td>Entitie</td> <td>Entitie</td>	entities	Entitie	Entitie
""> ENTITY enq "" ENTITY ack</td <td>in</td> <td>s that</td> <td>s that</td>	in	s that	s that
""> ENTITY softReturn "" ENTITY bs</td <td>Modifier</td> <td>represe</td> <td>represe</td>	Modifier	represe	represe
""> ENTITY hTab "	" ENTITY lineFeed</td <td>DTDEnt</td> <td>nt</td> <td>nt</td>	DTDEnt	nt	nt
" "> ENTITY vTab "" ENTITY boxBreak</td <td>ities</td> <td>Quark</td> <td>Quark</td>	ities	Quark	Quark
""> ENTITY hardReturn "" ENTITY so</td <td>that</td> <td>XPress</td> <td>XPress</td>	that	XPress	XPress
""> ENTITY flexSpace "" ENTITY dle</td <td>represen</td> <td>special</td> <td>special</td>	represen	special	special
""> ENTITY dcOne "" ENTITY dcTwo</td <td>t</td> <td>charact</td> <td>charact</td>	t	charact	charact
""> ENTITY dcThree "" ENTITY dcFour</td <td>QuarkX</td> <td>ers.Not</td> <td>ers.Not</td>	QuarkX	ers.Not	ers.Not
""> ENTITY nak "" ENTITY syn</td <td>Press</td> <td>e:</td> <td>e:</td>	Press	e:	e:
""> ENTITY etb "" ENTITY can</td <td>special</td> <td>Some</td> <td>Some</td>	special	Some	Some
""> ENTITY em "" ENTITY sub</td <td>characte</td> <td>entities</td> <td>entities</td>	characte	entities	entities
""> ENTITY esc "" ENTITY csMarker</td <td>rs.Note:</td> <td>, such</td> <td>, such</td>	rs.Note:	, such	, such
""> ENTITY discReturn "" ENTITY indentHere</td <td>Some</td> <td>as</td> <td>as</td>	Some	as	as

Element type	Constru ct	Modify	Decons truct
""> ENTITY discHyphen "­" ENTITY shy "" ENTITY ensp " " ENTITY emsp " " ENTITY threePerEmSpace " " ENTITY fourPerEmSpace " " ENTITY sixPerEmSpace " " ENTITY figureSpace " " ENTITY punctSpace " " ENTITY thinsp " " ENTITY hairSpace " " ENTITY zeroWidthSpace "​" ENTITY hyphen "‐" ENTITY ndash "–" ENTITY mdash "—" ENTITY wordJoiner "⁠" ENTITY nbsp</td <td>entities, such as softretur n, are different for QuarkX Press than they are in the Unicode</td> <td>softret urn, are differe nt for Quark XPress than they are in the</td> <td>softret urn, are differe nt for Quark XPress than they are in the</td>	entities, such as softretur n, are different for QuarkX Press than they are in the Unicode	softret urn, are differe nt for Quark XPress than they are in the	softret urn, are differe nt for Quark XPress than they are in the
" "> ENTITY ideographicSpace "　"	® specifica	e	e
	tion.	ation.	ation.

ADDCELLS (Modifier schema)

Element type	Construct	Modify	Deco nstru ct
ADDCELLS (empty)	ADDCELLS element typeNot applicable.	Adds cells to an existing table.Note: If you add a column, you must also define every ROW and CELL element in that column.	Not appli cable.
Attributes			
TYPE (ROW COLUMN HEADER FOOTER) #REQUIRED	Not applicable.	Specifies whether to add rows, columns, headers, or footers.	Not appli cable.
BASEINDEX CDATA #REQUIRED	Not applicable.	Specifies the index number of the cell before or after which the new cells should be inserted. See the INSERTPOSITION attribute.	Not appli cable.
INSERTCOUNT CDATA #REQUIRED	Not applicable.	Specifies how many cells to add.	Not appli cable.
INSERTPOSITION (AFTER BEFORE) "AFTER"	Not applicable.	Specifies whether to add the new cells before or after the cell indicated in the BASEINDEX attribute.	Not appli cable.
KEEPATTRIBUTE (true false) "false"	Not applicable.	Specifies whether an inserted row or column should adopt the same attributes as the BASEINDEX cell.	Not appli cable.

ALIGNHORSETTINGS (Modifier schema)

Element type	Construct	Modify	Deconstruct
ALIGNHORSETTINGS (empty)	ALIGNHORSETTING	Specifies	Specifies

Element type	Construct	Modify	Deconstruct
	S element	horizontal	horizontal
	typeSpecifies	alignment	alignment
	horizontal	settings for	settings for
	alignment settings	a callout.	a callout.
	for a callout.		
Attributes			
		Indicates	Indicates
	Indicates what a	what a	what a
ALIGNRELATIVETO (ANCHOR PARAGRAPH	callout should be	callout	callout
BOXCELL PAGE SPREAD) #IMPLIED	aligned relative to.	should be	should be
	aligned relative to.	aligned	aligned
		relative to.	relative to.
ALIGNCALLOUTS (CENTER LEFTEDGE		Indicates	Indicates
RIGHTEDGE INSIDEEDGE OUTSIDEEDGE)	Indicates which part	which part	which part
#IMPLIED	of a callout to align.	of a callout	of a callout
#IMI LIED		to align.	to align.
ALIGNWITH (ANCHORPOSITION LEFTEDGE		Indicates	Indicates
RIGHTEDGE INSIDEEDGE OUTSIDEEDGE	Indicates how a	how a	how a
CENTER CENTERMARGIN LEFTMARGIN	callout should be	callout	callout
RIGHTMARGIN INSIDEMARGIN	aligned.	should be	should be
OUTSIDEMARGIN) #IMPLIED		aligned.	aligned.
		Indicates a	Indicates a
OFFSET CDATA #IMPLIED	Indicates a callout's	callout's	callout's
OFFSET CDATA #IMPLIED	horizontal offset.	horizontal	horizontal
		offset.	offset.

ALIGNVERSETTINGS (Modifier schema)

Element type	Construct	Modify	Deconstruct
ALIGNVERSETTINGS (empty)	ALIGNVERSETTIN GS element typeSpecifies vertical alignment settings for a callout.	Specifies vertical alignment settings for a callout.	Specifies vertical alignment settings for a callout.
Attributes	•	!	
ALIGNRELATIVETO (ANCHOR PARAGRAPH BOXCELL PAGE SPREAD) #IMPLIED	Indicates what a callout should be aligned relative to.	Indicates what a callout should be aligned relative to.	Indicates what a callout should be aligned relative to.
ALIGNCALLOUTS (CENTER TOPEDGE BOTTOMEDGE) #IMPLIED	Indicates which part of a callout to align.	Indicates which part of a callout to align.	Indicates which part of a callout to align.
ALIGNWITH (ANCHORPOSITION CENTER TOPEDGE BOTTOMEDGE CENTERMARGIN	Indicates how a callout should be	Indicates how a	Indicates how a

MODIFIER SCHEMA (ANNOTATED)

Element type	Construct	Modify	Deconstruct
TOPMARGIN BOTTOMMARGIN TOP BOTTOM		callout	callout
TEXTASCENT TEXTBASELINE EMBOXTOP	aligned.	should be	should be
EMBOXBOTTOM) #IMPLIED		aligned.	aligned.
	Indicates a	Indicates a	Indicates a
OFFSET CDATA #IMPLIED	callout's vertical	callout's	callout's
		vertical	vertical
	onset.	offset.	offset.

ALLOWBOXOFFPAGE (Modifier schema)

Element type	Construct	Modify	Dec onst ruct
ALLOWB OXOFFPA GE (#PCDATA)	ALLOWBOXOF FPAGE element typeNot applicable.	Specifies whether a box is allowed to be moved completely off of a page and onto the pasteboard by, for example, a MOVERIGHT element. Only accepts true or false values; default value is true.	Not appl icab le.

ALLOWBOXONTOPASTEBOARD (Modifier schema)

Element type	Construct	Modify	ons	
Element type	Construct	Widding		
			t	
ALLOWBOX	ALLOWBOXONT	Specifies whether a box is allowed to be moved partially off	Not	
ONTOPASTE	OPASTEBOARD	of a page and onto the pasteboard by, for example, a	app	
BOARD	element typeNot	MOVERIGHT element.Only accepts true or false values;	lica	
(#PCDATA)	applicable.	default value is true.	ble.	

ANCHOREDBOXREF (Modifier schema)

Ele men t type	Construct	Modify	Deconstruct			
ANC HOR EDB OXR EF (#PC DAT A)	ANCHOREDBOXREF element typeSpecifies id of anchored box that is part of the story.	Specifies id of anchored box that is part of the story.	Specifies id of anchored box that is part of the story.			
Attrib	Attributes					
ALI	Determines whether the	Determines whether the top of the	Determines whether the			

Ele			
men			
t	Construct	Modify	Deconstruct
type			
GN	top of the anchored box	anchored box will align with the top of	top of the anchored box
WIT	will align with the top of	the text (ascent) or the bottom of the	will align with the top of
HTE	the text (ascent) or the	text (baseline).Note that if you want to	the text (ascent) or the
XT	bottom of the text	anchor the table and have it continue	bottom of the text
(AS	(baseline).Note that if	in the next box or column, this value	(baseline).Note that if
CEN	you want to anchor the	must be set to BASELINE.The	you want to anchor the
T	table and have it	alignwithtext attribute should be set to	table and have it
BAS	continue in the next box	baseline when the breakwhenanchored	continue in the next box
ELI	or column, this value	attribute is set to true for an anchored	or column, this value
NE)	must be set to BASELINE.	table.	must be set to BASELINE.
"BA			
SELI			
NE"			
OFF			
SET	Determines the offset		Determines the offset
CDA	when ALIGNWITHTEXT	Determines the offset when	when ALIGNWITHTEXT
TA	is set to BASELINE.	ALIGNWITHTEXT is set to BASELINE.	is set to BASELINE.
#IM	Default is 0.	Default is 0.	Default is 0.
PLIE			
D			
BAS			
ELI	Shifts the anchored box		
NES	up or down without	Shifts the anchored box up or down	
HIF T	affecting paragraph line	without affecting paragraph line	The baseline shift value
CDA	spacing. A positive value	spacing. A positive value raises the	applied to the anchored
TA	raises the anchored box,	anchored box, and a negative value	box.
#IM	and a negative value	lowers it.	
PLIE	lowers it.		
D			
TRA			
CKA			
MO	Adjusts the amount of		
UNT	space between the	Adjusts the amount of space between	The tracking value
CDA	anchored box and	the anchored box and surrounding	applied to the anchored
TA	surrounding characters	characters and words.	box and surrounding characters and words.
#IM	and words.		characters and words.
PLIE			
D			
SEN	A character spacing		A character spacing
DIN	attribute used in East	A character spacing attribute used in	attribute used in East
G	Asian typography. Similar	East Asian typography. Similar to	Asian typography. Similar
CDA	to kerning, but applicable	kerning, but applicable as a fixed value	to kerning, but applicable
TA	as a fixed value over a	over a range of text containing the	as a fixed value over a
#IM	range of text containing	anchored box.	range of text containing
PLIE	the anchored box.		the anchored box.
			<u> </u>

MODIFIER SCHEMA (ANNOTATED)

Ele men t type	Construct	Modify	Deconstruct
D			
BOX UID CDA TA #IM PLIE D	The ID of the anchored	The ID of the anchored box.	The ID of the anchored box.

ARTICLE (Modifier schema)

Element type	Construct	Modify	Deconstruct
ARTICLE (ID, RGBCOLOR?, COMPONENT+)	ARTICLE element typeDescribes an article (a series of one or more COMPONENT elements). New articles should not be created in a QuarkXPress project in systems working directly with QPS. Instead, create an article only within a QuarkCopyDesk® file. To assign an article in QPS®, use the QPS SDK.	Describe s an article (a series of one or more COMPO NENT element s).	Describes an article (a series of one or more COMPONENT elements).
Attributes			
OPERATION (CREATE DELETE) #IMPLIEDDOCFORMAT (LIGHTWEIGHT FULLFEATURED) "LIGHTWEIGHT"EXPOR TARTICLE (true false) "false"ARTICLETEMPLA TENAME CDATA #IMPLIED	Describes the type of Article.	Not applicab le.	Describes the type of Article. "LIGHTWEIGHT" and "FULLFEATURED" articles are forms of QuarkCopyDesk articles that can be constructed/modified through QuarkXPress Server.

AUTHOR (Modifier schema)

Element type	Construct	Modify	Deconstruct
	AUTHOR element typeNot applicable.	Part of the <ebookmetadata> element. Specifies the author of an e-book.</ebookmetadata>	Specifies the author of an ebook.

BNSTYLE (Modifier schema)

Element type	Construct	Modify	Deconstruct
	BNSTYLE element	BNSTYLE element	BNSTYLE element
BNSTYLE (empty)	typeDescribes a bullet,	typeDescribes a bullet,	typeDescribes a bullet,
BN311LE (empty)	numbering, or outline	numbering, or outline	numbering, or outline
	style	style	style
Attributes			
TYPE (BULLET NUMBERING	Specifies whether this is a	Specifies whether this is a	Specifies whether
OUTLINE)	bullet, numbering, or	bullet, numbering, or	LOCKTOGRID is enabled.
#IMPLIED	outline style.	outline style.	
NAME CDATA	Specifies the name of the	Specifies the name of the	Specifies the name of the
#IMPLIED	style.	style.	style.
MINDISTFROMT	Specifies the minimum	Specifies the minimum	Specifies the minimum
EXT CDATA	distance between the	distance between the	distance between the
#IMPLIED	bullet or number and the	bullet or number and the	bullet or number and the
#INII LIED	text.	text.	text.
RESTARTNUMBE	Specifies whether	Specifies whether	Specifies whether
RING (true false)	renumbering should	renumbering should	renumbering should
#IMPLIED	restart with this style.	restart with this style.	restart with this style.
STARTAT CDATA	Specifies the first number	Specifies the first number	Specifies the first number
#IMPLIED	for numbering.	for numbering.	for numbering.

BOTTOM (Modifier schema)

Elem ent type	Construct	Modify	Deconstruct
BOTT OM (#PC DATA)	BOTTOM element typeThe distance between the box or line's bottom edge and the bottom of the page, in points.	The distance between the box or line's bottom edge and the bottom of the page, in points.	The distance between the box or line's bottom edge and the bottom of the page, in points.

BOTTOMGRID (Modifier schema)

Elemen t type	Construct	Modify	D ec o ns tr uc t
BOTTO MGRID (empty)	BOTTOMGRID element typeDescribes a grid line on the bottom edge of a row in an <inlinetable>.</inlinetable>	Describes a grid line on the bottom edge of a row in an <inlinetable>.</inlinetable>	N ot ap pli

			Ь
			D
			ec
Elemen			0
t type	Construct	Modify	ns
7.1			tr
			uc
			t
			ca
			bl
			e.
Attribute	es		
TYPE			N
(TOP			ot
LEFT			
ВОТТО	Specifies the location of the grid line.	Specifies the location of the grid line.	ap
M	specifies the location of the grid line.	specifies the location of the grid line.	pli
RIGHT)			ca bl
#IMPLI			
ED			e.
	IIC TADIROTYLE	III (C. d. TADI DOTYU E. d. d. d. l.	N
CONT. E	Identifies the <tablestyle> that styles</tablestyle>	Identifies the <tablestyle> that styles</tablestyle>	ot
STYLE	this grid line. If you specify this value, you	this grid line. If you specify this value, you	ap
CDATA	do not have to specify the remaining	do not have to specify the remaining	pli
#IMPLI	attributes. If you specify the remaining	attributes. If you specify the remaining	ca
ED	attributes, those attribute values override	attributes, those attribute values override	bl
	the corresponding <tablestyle> values.</tablestyle>	the corresponding <tablestyle> values.</tablestyle>	e.
			N
			ot
WIDTH			ap
CDATA	Specifies the width of the grid line in	Specifies the width of the grid line in	pli
#IMPLI	points.	points.	ca
ED			bl
			e.
			N
			ot
COLOR			
CDATA	Specifies the color of the grid line	Specifies the color of the guid line	ap
#IMPLI	Specifies the color of the grid line.	Specifies the color of the grid line.	pli
ED			ca
			bl
			e.
			N
SHADE			ot
CDATA			ap
#IMPLI	Specifies the shade of the grid line.	Specifies the shade of the grid line.	pli
ED			ca
			bl
			e.
OPACIT			N
Y	Specifies the opacity of the grid line.	Specifies the opacity of the grid line.	ot
CDATA	, , ,		ар
			P

			D
			ec
Elemen			О
t type	Construct	Modify	ns
t type			tr
			uc
			t
			pli
#IMPLI			ca
ED			bl
			e.
			N
GAPCO			ot
LOR	Specifies the color of the gap (if any)	Specifies the color of the gap (if any)	ap
CDATA	between the lines that make up the grid	between the lines that make up the grid	pli
#IMPLI	line.	line.	ca
ED			bl
			e.
GAPSH			N
			ot
ADE CDATA	Specifies the shade of the gap (if any)	Specifies the shade of the gap (if any)	ap
#IMPLI	between the lines that make up the grid line.	between the lines that make up the grid line.	pli
ED	inie.	inie.	ca bl
ED			e.
			N
GAPOP			ot
ACITY	Specifies the opacity of the gap (if any)	Specifies the opacity of the gap (if any)	ap
CDATA	between the lines that make up the grid	between the lines that make up the grid	pli
#IMPLI	line.	line.	ca
ED			bl
			e.

BOX (Modifier schema)

Element type	Construct	Modify	Deconstruct
BOX (ID, METADATA?, (TEXT PICTURE GEOMETRY CONTENT SHADOW FRAME PLACEHOLD ER CONTENTP H STATICCON	BOX element typeDescribes a text box or picture box.Note: On construct, you must provide a box name in the ID@NAME attribute; QuarkXPress Server assigns an ID@UID to each BOX you create.Note: When a box is created, its page number is inferred from the GEOMETRY@PAGE	Identifies a text box or picture box to be modified. You can use either the ID@UID or ID@NAME value to identify the box.Note: Named boxes can be easily identified by an XPath search for //BOX[@NAME]).	Describes a text box or picture box.If a NAME value exists, the NAME displays in the content of the ID element: <id box="" of="" uid="456NAME=Name">Name of box</id> If a NAME value does not exist, the UID displays in the content of the ID element: <id uid="457">457</id>

Element type	Construct	Modify	Deconstruct
TENT)*,			
INTERACTIV	attribute.		
ITY?)			
Attributes			
OPERATION			
(CREATE	NT. (1 1.1.	Specifies whether to create	NT-1 1 1-1
DELETE)	Not applicable.	or delete the indicated box.	Not applicable.
#IMPLIED			
ВОХТҮРЕ	The box type:CT_NONE	The least of NONE	The least of NONE
(CT_NONE	= No box type	The box type:CT_NONE =	The box type:CT_NONE =
CT_TEXT	specified.CT_TEXT =	No box type	No box type
CT_PICT)	Text boxCT_PICT =	specified.CT_TEXT = Text	specified.CT_TEXT = Text
#IMPLIED	Picture box	boxCT_PICT = Picture box	boxCT_PICT = Picture box
	T.1 .10 .1	Identifies the background	Identifies the background
	Identifies the	color of a box.Note: Only	color of a box.Note: Only
	background color of a	the name of a color is	the name of a color is
	box.Note: Only the	included in this attribute.	included in this attribute.
	name of a color is	The definition of the color is	The definition of the color is
COLOR	included in this	stored in the project's Job	stored in the project's Job
CDATA	attribute. The definition	Jackets file or defined using	Jackets file or defined using
#IMPLIED	of the color is stored in	the Document Controls	the Document Controls
	the project's Job Jackets	submenu in QuarkXPress	submenu in QuarkXPress
	file or defined using the Document Controls	Server. The color definition	Server. The color definition
	submenu in	can also be based on an	can also be based on an
		existing color created and	existing color created and
	QuarkXPress Server.	saved in the project.	saved in the project.
SHADE	Specifies the shade of a	Specifies the shade of a box's	Specifies the shade of a box's
CDATA	box's background color,	background color, specified	background color, specified
#IMPLIED	specified as a float value	as an integer percentage	as an integer percentage
#IWII LIED	from 0 to 100.	from 0 to 100.	from 0 to 100.
OPACITY	Specifies the opacity of a	Specifies the opacity of a	Indicates the opacity of a
CDATA	box's background color,	box's background color,	box's background color,
#IMPLIED	specified as a float value	specified as an integer	specified as an integer
#IIVII LILD	from 0 to 100.	percentage from 0 to 100.	percentage from 0 to 100.
BLENDSTYLE			
(SOLID			
LINEAR			
MIDLINEAR	Specifies the type of		
RECTANGUL	blend applied to this	Specifies the type of blend	Specifies the type of blend
AR	box (linear, circular,	applied to this box (linear,	applied to this box (linear,
DIAMOND	rectangular, etc.).	circular, rectangular, etc.).	circular, rectangular, etc.).
CIRCULAR	G,,		
FULLCIRCUL			
AR none)			
"none"			
BLENDANGL	Specifies the angle of the	Specifies the angle of the	Specifies the angle of the
E CDATA	blend.	blend.	blend.
#IMPLIED			
BLENDCOLO	Specifies the second	Specifies the second color of	Specifies the second color of
			<u> </u>

Element type	Construct	Modify	Deconstruct
R CDATA	color of the blend. The	the blend. The first color of	the blend. The first color of
#IMPLIED	first color of the blend is	the blend is the color	the blend is the color
	the color applied to the	applied to the box.	applied to the box.
	box.		
BLENDSHAD E CDATA #IMPLIED	Specifies the shade applied to the second color of the blend. The shade of the first color of the blend is the shade of the color applied to the box.	Specifies the shade applied to the second color of the blend. The shade of the first color of the blend is the shade of the color applied to the box.	Specifies the shade applied to the second color of the blend. The shade of the first color of the blend is the shade of the color applied to the box.
BLENDOPAC ITY CDATA #IMPLIED	Specifies the opacity applied to the second color of the blend. The opacity of the first color of the blend is the opacity of the color applied to the box.	Specifies the opacity applied to the second color of the blend. The opacity of the first color of the blend is the opacity of the color applied to the box.	Specifies the opacity applied to the second color of the blend. The opacity of the first color of the blend is the opacity of the color applied to the box.
ANCHOREDI N CDATA #IMPLIED	Not applicable.	Not applicable.	Indicates an anchored box and identifies its parent box.
ANCHORED GROUPMEM BER CDATA #IMPLIED	Specifies that this box is a member of the indicated anchored group.	Specifies that this box is a member of the indicated anchored group.	Specifies that this box is a member of the indicated anchored group.
HYPERLINKR EF CDATA #IMPLIED	Not applicable.	Not applicable.	Specifies that this box is a hyperlink by referring to a HYPERLINK.
HLTYPE (WWWURL PAGE ANCHOR) #IMPLIED	Not applicable.	Not applicable.	Specifies the type of hyperlink this box hyperlinks to. Options include WWWURL (a URL on the Web), PAGE (the top of a page in the same layout), and ANCHOR (an anchor). WWWURL is global to all layouts in the project and is specified directly under the project node.
HLANCHOR REF CDATA #IMPLIED	Not applicable.	Not applicable.	If this box is a hyperlink of the HLTYPE ANCHOR, this attribute identifies the anchor by name.
ADDTOREFL OW (true false) #IMPLIED	Not applicable.	If true, adds this box to the project's reflow article. Equivalent to the Digital Publishing > Add to Reflow command in QuarkXPress.	Not applicable.
ARTICLENA	Not applicable.	Specifies the name of the	Not applicable.

MODIFIER SCHEMA (ANNOTATED)

Element type	Construct	Modify	Deconstruct
ME CDATA		project's reflow article (to	
#IMPLIED		which this box is being	
		added as a component). If	
		no reflow article exists and	
		you do not include this	
		attribute, the default reflow	
		article name is used.	

BOXATTRIBUTE (Modifier schema)

Element type	Construct	Modify	D ec o ns tr uc t
BOXATTRIBUTE (empty)	BOXATTRIBUTE element typeSpecifies the attributes of a box created with the INLINEBOX element type.	Specifies the attributes of a box created with the INLINEBOX element type.	ot ap pli ca bl e.
Attributes			
COLOR CDATA #IMPLIED	Identifies the background color of a box.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the project's Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server.	Identifies the background color of a box.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the project's Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server.	N ot ap pli ca bl e.
SHADE CDATA #IMPLIED	Specifies the shade of a box's background color, specified as a float value from 0 to 100.	Specifies the shade of a box's background color, specified as a float value from 0 to 100.	N ot ap pli ca bl e.
OPACITY CDATA #IMPLIED	Specifies the opacity of a box's background color, specified as a float value from 0 to 100.	Specifies the opacity of a box's background color, specified as a float value from 0 to 100.	N ot ap pli ca bl e.
BLENDSTYLE	Specifies the type of blend applied to	Specifies the type of blend applied to	N

			D
			ec
			0
Element type	Construct	Modify	ns
			tr
			uc
			t
(SOLID LINEAR	this box (linear, circular, rectangular,	this box (linear, circular, rectangular,	ot
MIDLINEAR	etc.).	etc.).	ap
RECTANGULAR			pli
DIAMOND			ca
CIRCULAR			bl
FULLCIRCULAR			e.
none) "none"			Ш
			N
			ot
BLENDANGLE			ap
CDATA #IMPLIED	Specifies the angle of the blend.	Specifies the angle of the blend.	pli
			ca
			bl
			e.
			N
			ot
BLENDCOLOR	Specifies the second color of the	Specifies the second color of the	ap
CDATA #IMPLIED	blend. The first color of the blend is	blend. The first color of the blend is	pli
	the color applied to the box.	the color applied to the box.	ca
			bl
			e.
			N
	Specifies the shade applied to the	Specifies the shade applied to the	ot
BLENDSHADE	second color of the blend. The shade	second color of the blend. The shade	ap
CDATA #IMPLIED	of the first color of the blend is the	of the first color of the blend is the	pli
	shade of the color applied to the	shade of the color applied to the	ca
	box.	box.	bl
			e.
	Specifies the enecity and its dis-	Specifies the enecity and it die the	N
	Specifies the opacity applied to the	Specifies the opacity applied to the	ot
BLENDOPACITY	second color of the blend. The	second color of the blend. The	ap
CDATA #IMPLIED	opacity of the first color of the blend	opacity of the first color of the blend	pli
	is the opacity of the color applied to	is the opacity of the color applied to the box.	ca
	the box.	ine box.	bl
			e. N
			ot
CORNERRADIUS	Specifies the radius of the corner	Specifies the radius of the corner	ap
CDATA #IMPLIED	style of the box.	style of the box.	pli
			ca bl
			e.
CORNERSTYLE	Specifies the style of the corners of	Specifies the style of the corners of	N
	ı	1	ш

Element type	Construct	Modify	D ec o ns tr uc t
(ROUNDED CONCAVE RECTANGLE BEVELED) #IMPLIED	the box.	the box.	ot ap pli ca bl e.
ANGLE CDATA #IMPLIED	Specifies a rotation angle for a box as a floating-point value between -360 degrees and 360 degrees.	Specifies a rotation angle for a box as a floating-point value between -360 degrees and 360 degrees.	N ot ap pli ca bl e.

BOXREF (Modifier schema)

Element type	Construct	Modify	Deconstruc t
BOXREF (empty)	BOXREF element typeIdentifies a box that is a member of a <group>.</group>	Identifies a box that is a member of a <group>.</group>	Identifies a box that is a member of a <group>.</group>
Attributes			
UID CDATA #IMPLIE D	The ID@UID of a <box> that is part of a group.</box>	The ID@UID of a <box> that is part of a group.</box>	The ID@UID of a <box> that is part of a group.</box>
NAME CDATA #IMPLIE D	The ID@NAME of a <box> that is part of a group.</box>	The ID@NAME of a <box> that is part of a group.</box>	The ID@NAME of a <box> that is part of a group.</box>
OPERATI ON (CREATE DELETE) #IMPLIE D	Creates or deletes the link that makes the target box part of a group. Note that deleting a <boxref> does not remove the corresponding box from the layout.</boxref>	Creates or deletes the link that makes the target box part of a group. Note that deleting a <boxref> does not remove the corresponding box from the layout.</boxref>	Not applicable.

CALLOUTANCHOR (Modifier schema)

Element type	Construct	Modify	Deconstruct
CALLOU			
TANCHO			
R			
((CALLO			
UTBOXR			
EF?			
INLINET	CALLOUTANCHOR element		
ABLE?	typeIdentifies a callout	Identifies a callout anchor.	Identifies a callout anchor.
INLINEB	anchor.		
OX?),			
ALIGNH			
ORSETTI			
NGS?,			
ALIGNVE			
RSETTIN			
GS?)			
Attributes			
UID			
CDATA	Unique identifier for a	Unique identifier for a	Unique identifier for a
#IMPLIE	callout anchor.	callout anchor.	callout anchor.
D			
CALLOU			
TSTYLE	Identifies the callout style to	Identifies the callout style to	Identifies the callout style
CDATA	be associated with a callout	be associated with a callout	associated with a callout
#IMPLIE	anchor.	anchor.	anchor.
D			
OPERATI			
ON			
(RELEASE	Lets you release a callout	Lets you release a callout	
DELETE)	anchor's callout or delete	anchor's callout or delete	Not applicable.
#IMPLIE	the callout anchor.	the callout anchor.	
D			
ALLOW			
MANUAL	Indicates whether the	Indicates whether the	Indicates whether the
POS (true	callout associated with this	callout associated with this	callout associated with this
false)	callout anchor can be	callout anchor can be	callout anchor can be
#IMPLIE	manually repositioned.	manually repositioned.	manually repositioned.
D Thirtie	manany repositioned.	inanany repositioned.	inanany repositioned.
KEEPWIT			
HINMAR	Indicates whether the	Indicates whether the	Indicates whether the
GINS	callout associated with this	callout associated with this	callout associated with this
	callout anchor can be	callout anchor can be	callout anchor can be
(true false)			
#IMPLIE	positioned outside the	positioned outside the	positioned outside the
	margin.	margin.	margin.
D			
VERTICA	If TILINGDIRECTION =	If TILINGDIRECTION =	If TILINGDIRECTION =

MODIFIER SCHEMA (ANNOTATED)

Element type	Construct	Modify	Deconstruct
LPADDIN	VERTICAL, the vertical	VERTICAL, the vertical	VERTICAL, the vertical
G	padding specified signifies	padding specified signifies	padding specified signifies
	the spacing to be	the spacing to be	the spacing to be
	maintained between two	maintained between two	maintained between two
	callout boxes. This value	callout boxes. This value	callout boxes. This value
	will be used during the time	will be used during the time	will be used during the time
	of automatic stacking of	of automatic stacking of	of automatic stacking of
	callouts in the event when	callouts in the event when	callouts in the event when
	they attempt to overlap	they attempt to overlap	they attempt to overlap
	upon each other as a result	upon each other as a result	upon each other as a result
	of application of same	of application of same	of application of same
	callout style on them.	callout style on them.	callout style on them.
	If TILINGDIRECTION =	If TILINGDIRECTION =	If TILINGDIRECTION =
	HORIZONTAL, the	HORIZONTAL, the	HORIZONTAL, the
	horizontal padding value	horizontal padding value	horizontal padding value
	specified signifies the	specified signifies the	specified signifies the
	spacing to be maintained	spacing to be maintained	spacing to be maintained
HORIZO	between two the callout	between two the callout	between two the callout
NTALPAD	boxes. This value will be	boxes. This value will be	boxes. This value will be
DING	used during the time of	used during the time of	used during the time of
DING	automatic stacking of	automatic stacking of	automatic stacking of
	callouts in the event when	callouts in the event when	callouts in the event when
	they attempt to overlap	they attempt to overlap	they attempt to overlap
	upon each other as a result	upon each other as a result	upon each other as a result
	of application of same	of application of same	of application of same
	callout style on them.	callout style on them.	callout style on them.

CALLOUTBOXREF (Modifier schema)

Element type	Construct	Modify	Deconstruct
CALLOUTBO XREF (empty)	CALLOUTBOXREF element typeIdentifies an item or group as a callout.	Identifies an item or group as a callout.	Identifies an item or group as a callout.
Attributes			
UID CDATA	Unique identifier for a callout box	Unique identifier for a	Unique identifier for a
#IMPLIED	reference.	callout box reference.	callout box reference.
NAME		Name for a callout	Name for a callout
CDATA	Name for a callout box reference.	box reference.	box reference.
#IMPLIED		box reference.	DOX TETETETICE.

CELL (Modifier schema)

Element type	Construct	Modify	Deconstruct
`	CELL element typeDescribes a table	Describes a table cell.	Describes a table cell.

Element			
type	Construct	Modify	Deconstruct
CONTENTP			
H TEXT	cell.		
PICTURE			
PLACEHOL			
DER)*)			
Attributes			
COLUMNC	Specifies the column	6 16 11 1 1 1	6 16 11 1 1 1
OUNT	index position of a cell,	Specifies the column index	Specifies the column index
CDATA	with the first cell being	position of a cell, with the	position of a cell, with the
#REQUIRED	cell 1.	first cell being cell 1.	first cell being cell 1.
BOXTYPE	Specifies a cells	Specifies a colle	Specifies a colle
(CT_NONE	type:CT_NONE = No-	Specifies a cells	Specifies a cells
CT_TEXT	content cellCT_TEXT =	type:CT_NONE = No-content	type:CT_NONE = No-content
CT_PICT)	Text cellCT_PICT =	cellCT_TEXT = Text cellCT_PICT = Picture cell	cellCT_TEXT = Text cellCT_PICT = Picture cell
#IMPLIED	Picture cell	centrici = ricture cen	centrici = ricture cen
COLOR CDATA #IMPLIED	Identifies the color of a cell.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server.	Identifies the color of a cell.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server, or an existing color created and saved in the project.	Identifies the color of a cell.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server, or an existing color created and saved in the project.
SHADE CDATA #IMPLIED	Specifies the shade of the color applied to a cell, as an integer percentage from 0 to 100.	Specifies the shade of the color applied to a cell, as an integer percentage from 0 to 100.	Specifies the shade of the color applied to a cell, as an integer percentage from 0 to 100.
OPACITY CDATA #IMPLIED	Specifies the opacity of the color applied to a cell, specified as an integer percentage from 0 to 100.	Specifies the opacity of the color applied to a cell, specified as an integer percentage from 0 to 100.	Specifies the opacity of the color applied to a cell, specified as an integer percentage from 0 to 100.
BLENDSTYL			
E (SOLID LINEAR MIDLINEAR RECTANGU LAR DIAMOND CIRCULAR FULLCIRCU LAR none)	Specifies the type of blend applied to this cell (linear, circular, rectangular, etc.).	Specifies the type of blend applied to this cell (linear, circular, rectangular, etc.).	Specifies the type of blend applied to this cell (linear, circular, rectangular, etc.).

Element	Construct	Modify	Deconstruct
type	Construct	Modify	Deconstruct
"none"			
BLENDANG LE CDATA #IMPLIED	Specifies the angle of the blend.	Specifies the angle of the blend.	Specifies the angle of the blend.
BLENDCOL OR CDATA #IMPLIED	Specifies the second color of the blend. The first color of the blend is the color applied to the cell, as in QuarkXPress.	Specifies the second color of the blend. The first color of the blend is the color applied to the cell, as in QuarkXPress.	Specifies the second color of the blend. The first color of the blend is the color applied to the cell, as in QuarkXPress.
BLENDSHA DE CDATA #IMPLIED	Specifies the shade applied to the second color of the blend. The shade of the first color of the blend is the shade of the color applied to the cell.	Specifies the shade applied to the second color of the blend. The shade of the first color of the blend is the shade of the color applied to the cell.	Specifies the shade applied to the second color of the blend. The shade of the first color of the blend is the shade of the color applied to the cell.
BLENDOPA CITY CDATA #IMPLIED	Specifies the opacity applied to the second color of the blend. The opacity of the first color of the blend is the opacity of the color applied to the cell.	Specifies the opacity applied to the second color of the blend. The opacity of the first color of the blend is the opacity of the color applied to the cell.	Specifies the opacity applied to the second color of the blend. The opacity of the first color of the blend is the opacity of the color applied to the cell.
MERGERO WSPAN CDATA #IMPLIED	Attribute used for merging cells and rows.	Attribute used for merging cells and rows.	If a table includes merged cells, then the MERGECOLSPAN value is shown in the xml output.
MERGECOL SPAN CDATA #IMPLIED	Attribute used for merging cells and columns.	Attribute used for merging cells and columns.	Not applicable.
SPLIT (true false) #IMPLIED	Not applicable.	Attribute used for splitting rows and columns.	Not applicable.
ADDTOREF LOW (true false) #IMPLIED	Not applicable.	If true, adds the contents of this cell to the project's reflow article. Equivalent to the Digital Publishing > Add to Reflow command in QuarkXPress.	Not applicable.
ARTICLENA ME CDATA #IMPLIED	Not applicable.	Specifies the name of the project's reflow article (to which the contents of this cell is being added as a component). If no reflow article exists and you do not include this attribute, the	Not applicable.

Element type	Construct	Modify	Deconstruct
		default reflow article name is used.	

CHILDID (Modifier schema)

Element type	Construct	Modify	Deconstruct
D	CHILDID element typeSpecifies a child of a parent TABLE element.	Specifies a child of a parent TABLE element.	Specifies a child of a parent TABLE element.
Attribute	S		
NAME CDATA #IMPLI ED	Indicates the user- assigned name of the CHILD element of the parent table.	Not applicable.	Indicates the user-assigned name of the CHILD element of the parent table.
UID CDATA #IMPLI ED	Not applicable.	Indicates the ID of the CHILD element of the parent table assigned from QuarkXPress Server.	Indicates the ID of the CHILD element of the parent table assigned from QuarkXPress Server.

CLIPPING (Modifier schema)

Elem	Constant	24. 20	December
ent	Construct	Modify	Deconstruct
type			
CLIP			
	CLIPPING element	Describes a clipping path.	Describes a clipping path.
(emp	typeDescribes a clipping path.		
ty)			
Attrib	utes		
TYPE	Specifies the type of clipping	Specifies the type of clipping	Specifies the type of clipping
(ITE	applied to a picture	applied to a picture	applied to a picture
M	item:ITEM = Runs along the	item:ITEM = Runs along the	item:ITEM = Runs along the
EMB	edges of the	edges of the	edges of the
EDD	item.EMBEDDEDPATH =	item.EMBEDDEDPATH =	item.EMBEDDEDPATH =
EDPA	Runs along a path embedded	Runs along a path embedded	Runs along a path embedded
TH	in the picture	in the picture	in the picture
ALP	file.ALPHACHANNEL = Runs	file.ALPHACHANNEL = Runs	file.ALPHACHANNEL = Runs
HAC	along an alpha channel	along an alpha channel	along an alpha channel
HAN	embedded in the picture	embedded in the picture	embedded in the picture
NEL	file.NONWHITEAREAS = Runs	file.NONWHITEAREAS = Runs	file.NONWHITEAREAS = Runs
NON	along a path based on the	along a path based on the	along a path based on the
WHI	dark and light areas of the	dark and light areas of the	dark and light areas of the
TEAR	picture file. See the	picture file. See the	picture file. See the
EAS	THRESHOLD	THRESHOLD	THRESHOLD
PICT	attribute.PICTUREBOUNDS =	attribute.PICTUREBOUNDS =	attribute.PICTUREBOUNDS =

Elem			
ent	Construct	Modify	Deconstruct
type			
URE	Dona da contla contra de la contra dela contra de la contra dela contra de la contra dela contra de la contra dela contra del la contra dela contra dela contra del la	Described the section of the	D
BOU	Runs along the rectangular	Runs along the rectangular	Runs along the rectangular
NDS)	canvas area of the picture,	canvas area of the picture,	canvas area of the picture,
"ITE	regardless of the size and	regardless of the size and	regardless of the size and
M"	shape of the picture box.	shape of the picture box.	shape of the picture box.
	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE
TOP	= ITEM or PICTUREBOUNDS.	= ITEM or PICTUREBOUNDS.	= ITEM or PICTUREBOUNDS.
CDA	Moves the top edge of the	Moves the top edge of the	Moves the top edge of the
TA	clipping path by the specified	clipping path by the specified	clipping path by the specified
#IMP	number of points	number of points	number of points
LIED	(positive=up,	(positive=up,	(positive=up,
	negative=down).	negative=down).	negative=down).
RIGH	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE
T	= ITEM or PICTUREBOUNDS.	= ITEM or PICTUREBOUNDS.	= ITEM or PICTUREBOUNDS.
CDA	Moves the right edge of the	Moves the right edge of the	Moves the right edge of the
TA	clipping path by the specified	clipping path by the specified	clipping path by the specified
#IMP	number of points	number of points	number of points
LIED	(positive=right, negative=left).	(positive=right, negative=left).	(positive=right, negative=left).
LEFT	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE
CDA	= ITEM or PICTUREBOUNDS.	= ITEM or PICTUREBOUNDS.	= ITEM or PICTUREBOUNDS.
TA	Moves the left edge of the	Moves the left edge of the	Moves the left edge of the
#IMP	clipping path by the specified	clipping path by the specified	clipping path by the specified
LIED	number of points	number of points	number of points
LIED	(positive=left, negative=right).	(positive=left, negative=right).	(positive=left, negative=right).
BOT	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE
TOM	= ITEM or PICTUREBOUNDS.	= ITEM or PICTUREBOUNDS.	= ITEM or PICTUREBOUNDS.
CDA	Moves the bottom edge of the	Moves the bottom edge of the	Moves the bottom edge of the
TA	clipping path by the specified	clipping path by the specified	clipping path by the specified
#IMP	number of points	number of points	number of points
LIED	(positive=down,	(positive=down,	(positive=down,
	negative=up).	negative=up).	negative=up).
PATH			
NAM			
E	Identifies a path embedded in	Identifies a path embedded in	Identifies a path embedded in
CDA	a picture for use as the	a picture for use as the	a picture for use as the
TA	clipping path.	clipping path.	clipping path.
#IMP			
LIED			
OUT	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE
SET	= EMBEDDEDPATH,	= EMBEDDEDPATH,	= EMBEDDEDPATH,
CDA	ALPHACHANNEL, or	ALPHACHANNEL, or	ALPHACHANNEL, or
TA	NONWHITEAREAS. Specifies	NONWHITEAREAS. Specifies	NONWHITEAREAS. Specifies
#IMP	a single outset or inset integer	a single outset or inset integer	a single outset or inset integer
LIED	value in points to be used on	value in points to be used on	value in points to be used on
L	all sides.	all sides.	all sides.
NOIS	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE
E	= ALPHACHANNEL or	= ALPHACHANNEL or	= ALPHACHANNEL or

Elem			
ent	Construct	Modify	Deconstruct
type	Construct	Wiedity	Deconstruct
CDA	NONWHITEAREAS. Specifies	NONWHITEAREAS. Specifies	NONWHITEAREAS. Specifies
TA	that areas smaller than this	that areas smaller than this	that areas smaller than this
#IMP	number of points should be	number of points should be	number of points should be
LIED	ignored when creating a	ignored when creating a	ignored when creating a
	clipping path.	clipping path.	clipping path.
	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE
THR	= ALPHACHANNEL or	= ALPHACHANNEL or	= ALPHACHANNEL or
ESH			
OLD	NONWHITEAREAS. Specifies	NONWHITEAREAS. Specifies	NONWHITEAREAS. Specifies
CDA	the maximum integer	the maximum integer	the maximum integer
TA	percentage of darkness that	percentage of darkness that	percentage of darkness that
#IMP	should be considered white	should be considered white	should be considered white
LIED	when creating a clipping	when creating a clipping	when creating a clipping
	path.	path.	path.
SMO	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE
OTH	= ALPHACHANNEL or	= ALPHACHANNEL or	= ALPHACHANNEL or
NESS	NONWHITEAREAS. Specifies	NONWHITEAREAS. Specifies	NONWHITEAREAS. Specifies
CDA	the smoothness, in points, of	the smoothness, in points, of	the smoothness, in points, of
TA	an automatically created	an automatically created	an automatically created
#IMP	clipping path.	clipping path.	clipping path.
LIED	chipping patri.	Chipping path.	Спрриід расп.
OUT			
SIDE			
ONL	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE	 Valid when CLIPPING@TYPE
Y	= EMBEDDEDPATH,	= EMBEDDEDPATH,	= EMBEDDEDPATH,
(true	· ·	· ·	·
	ALPHACHANNEL, or	ALPHACHANNEL, or	ALPHACHANNEL, or
false	NONWHITEAREAS. Indicates	NONWHITEAREAS. Indicates	NONWHITEAREAS. Indicates
	that only the outer edges of	that only the outer edges of	that only the outer edges of
none	the clipping path should be	the clipping path should be	the clipping path should be
<u> </u>	used.	used.	used.
"non			
e"			
REST			
RICT			
TOB			
ОX	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE
l .	= EMBEDDEDPATH,	= EMBEDDEDPATH,	= EMBEDDEDPATH,
(true	ALPHACHANNEL, or	ALPHACHANNEL, or	ALPHACHANNEL, or
 fo1o=	NONWHITEAREAS. Indicates	NONWHITEAREAS. Indicates	NONWHITEAREAS. Indicates
false	whether the clipping path is	whether the clipping path is	whether the clipping path is
	restricted to the inside of the	restricted to the inside of the	restricted to the inside of the
none	box.	box.	box.
])			
"non			
e"			
INVE	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE	Valid when CLIPPING@TYPE
RT	= EMBEDDEDPATH,	= EMBEDDEDPATH,	= EMBEDDEDPATH,
(true	ALPHACHANNEL, or	ALPHACHANNEL, or	ALPHACHANNEL, or
Ľ.	<u> </u>	<u> </u>	<u> </u>

Elem ent type	Construct	Modify	Deconstruct
false none mone mone "non	NONWHITEAREAS. Reverses the shape of the clipping path.	NONWHITEAREAS. Reverses the shape of the clipping path.	NONWHITEAREAS. Reverses the shape of the clipping path.
EDIT ED (true false none) "non e"	Not applicable.	Not applicable.	Indicates whether the clipping path has been manually edited in QuarkXPress.

COLGROUP (Modifier schema)

Element type	Construct	Modify	Deconst ruct
1	COLGROUP element typeIdentifies a group of columns in an <inlinetable>.</inlinetable>	Identifies a group of columns in an <inlinetable>.</inlinetable>	Not applicab le.

COLSPEC (Modifier schema)

Ele me nt typ e	Construct	Modify	Deco nstru ct
CO LSP EC (C OL UM N+)	COLSPEC element typeDescribes the columns in a table.Note: If the COLSPEC element is missing for a table, then the table is created using columns of equal width, based on the number of columns in the row with the most columns.	Describes the columns in a table.Note: If the COLSPEC element is missing for a new table, then the table is created using columns of equal width, based on the number of columns in the row with the most columns.	Descr ibes the colu mns in a table.

COLUMN (Modifier schema)

Ele me nt ty pe	Construct	Modify	Deconstruct
C OL U M N (LI NE *)	COLUMN element typeDescribes a column in a table.	Describes a column in a table.	Describes a column in a table.
C OL U M N C O U NT C DA TA #R EQ UI RE D	Specifies the index position of a column beginning from the left. For example, COLUMNCOUNT = 1 indicates the first column from the left, and COLUMNCOUNT = 2 indicates the second column from the left.	Specifies the index position of a column beginning from the left. For example, COLUMNCOUNT = 1 indicates the first column from the left, and COLUMNCOUNT = 2 indicates the second column from the left.	Specifies the index position of a column beginning from the left. For example, COLUMNCOUNT = 1 indicates the first column from the left, and COLUMNCOUNT = 2 indicates the second column from the left.
C OL U M N WI DT H C DA TA #I M PLI ED	Specifies the width of a column.	Specifies the width of a column.	Specifies the width of a column.
C OL	Identifies the color of a column. Overrides the	Identifies the color of a column. Overrides the TABLE@COLOR	Identifies the color of a column. Overrides the TABLE@COLOR

P1.			
Ele			
me			
nt	Construct	Modify	Deconstruct
ty			
ре			
OR	TABLE@COLOR	attribute.Note: Only the name	attribute.Note: Only the name
C	attribute.Note: Only the	of a color is included in this	of a color is included in this
1	name of a color is included	attribute. The definition of the	attribute. The definition of the
1			
1	in this attribute. The	color is stored in the projects	color is stored in the projects
#I	definition of the color is	Job Jackets file or defined using	Job Jackets file or defined using
M	stored in the projects Job	the Document Controls	the Document Controls
PLI	Jackets file or defined using	submenu in QuarkXPress Server,	submenu in QuarkXPress Server,
ED	the Document Controls	or an existing color created and	or an existing color created and
	submenu in QuarkXPress	saved in the project.	saved in the project.
	Server.	r r	
SH	Jerven.		
1			
AD			
E			
C	Specifies the shade of the	Specifies the shade of the color	Specifies the shade of the color
DA	color applied to a column,	applied to a column, as an	applied to a column, as an
TA	as an integer percentage	integer percentage from 0 to	integer percentage from 0 to
#I	from 0 to 100.	100.	100.
M			
PLI			
ED			
OP			
AC			
IT			
1			
Y	Specifies the opacity of the	Specifies the opacity of the color	Specifies the opacity of the color
C	color applied to a column,	applied to a column, specified as	applied to a column, specified as
DA	specified as an integer	an integer percentage from 0 to	an integer percentage from 0 to
TA	percentage from 0 to 100.	100.	100.
#I	percentage from 0 to 100.	100.	100.
M			
PLI			
ED			
M			
ER			
GE			
1			
C			
OL			
SP			If a table includes merged cells,
AN	Attribute used for merging	Attribute used for merging cells,	then the MERGECOLSPAN value
С	cells, rows, and columns.	rows, and columns.	is shown in the xml output.
DA			13 3110 wit in the Ann Output.
TA			
#I			
M			
PLI			
ED			
ED			

Ele			
me			
nt	Construct	Modify	Deconstruct
ty			
pe			
SP			
LI			
Т			
(tr			
ue			
luc		Attribute used for splitting	
fal	Not applicable.	merged cells.	Not applicable.
1		merged cens.	
se)			
#I			
M			
PLI			
ED			
AU			
ТО			
FIT			
(tr			
ue			
	Specifies whether the rows	Specifies whether the rows or	Indicates whether the rows or
fal	or columns will adjust size	columns will adjust size to fit	columns will adjust size to fit
se	to fit the content.	the content.	the content.
no			
ne)			
"n			
on			
e"			
AU			
ТО			
FIT			
M			
AX			
LI			
MI			
Т	Max limit for autofit.	Max limit for autofit.	Max limit for autofit.
С			
DA			
TA			
#I			
M			
PLI			
ED			
ED			

COLUMNFLOW (Modifier schema)

→ To learn more about column flow (split & span) functionality in QuarkXPress 2017, refer to the "Controlling column flow" and "Column flow examples" sections of the

QuarkXPress 2017 User Guide found here:

http://files.quark.com/download/documentation/QuarkXPress/2017/English/QXP-2017-User-Guide-EN.pdf. The newly introduced Modifier XML markup maps/corresponds to the QuarkXPress 2017 functionality.

Element type	Construct	Modify	Deconstruct
COLUMNFLOW	The COLUMNFLOW	The COLUMNFLOW	The COLUMNFLOW
(COLUMNSPAN	element is used to	element is used to	element is used to
COLUMNSPLIT)	specify how text flows	specify how text flows	specify how text flows
COLUMNSPLIT)	in relation to columns.	in relation to columns.	in relation to columns.
Attributes			
	Specifies the column	Specifies the column	Specifies the column
	flow order. Allowed	flow order. Allowed	flow order. Allowed
	options are	options are	options are
	CONTINUOUS to leave	CONTINUOUS to leave	CONTINUOUS to leave
FLOWORDER	the paragraph in its	the paragraph in its	the paragraph in its
	original column or	original column or	original column or
	RESTART to move the	RESTART to move the	RESTART to move the
	paragraph to the start	paragraph to the start	paragraph to the start
	of the column block.	of the column block.	of the column block.

COLUMNSPAN (Modifier schema)

Element type	Construct	Modify	Deconstruct
	The COLUMNSPAN	The COLUMNSPAN	The COLUMNSPAN
	element is used to	element is used to	element is used to
COLUMNSPAN	specify how a	specify how a paragraph	specify how a paragraph
	paragraph spans over	spans over multiple	spans over multiple
	multiple columns.	columns.	columns.
Attributes			
COLUMNCOUNT	Specifies the number of columns you want the paragraph to span. You can choose All or a number from 2 to 30.	Specifies the number of columns you want the paragraph to span. You can choose All or a number from 2 to 30.	Specifies the number of columns you want the paragraph to span. You can choose All or a number from 2 to 30.
SPACEAFTER	Specifies the space after the paragraphs.	Specifies the space after the paragraphs.	Specifies the space after the paragraphs.
SPACEBEFORE	Specifies the space before the paragraphs.	Specifies the space before the paragraphs.	Specifies the space before the paragraphs.

COLUMNSPLIT (Modifier schema)

→ To learn more about column flow (split & span) functionality in QuarkXPress 2017, refer to the "Controlling column flow" and "Column flow examples" sections of the *QuarkXPress 2017 User Guide* found here:

http://files.quark.com/download/documentation/QuarkXPress/2017/English/QXP-2017-

User-Guide-EN.pdf. The newly introduced Modifier XML markup maps/corresponds to the QuarkXPress 2017 functionality.

Element type	Construct	Modify	Deconstruct
	The COLUMNSPLIT element is used to	The COLUMNSPLIT element is used to	The COLUMNSPLIT
COLLD ORDINA	specify how a	specify how a	element is used to specify
COLUMNSPLIT	paragraph is split	paragraph is split	how a paragraph is split
	between multiple	between multiple	between multiple
	columns.	columns.	columns.
Attributes			
COLUMNCOUNT	Specifies the number of columns you want the paragraph to be split among. You can choose a number from 2 to 30.	Specifies the number of columns you want the paragraph to be split among. You can choose a number from 2 to 30.	Specifies the number of columns you want the paragraph to be split among. You can choose a number from 2 to 30.
CDA CE A PTED	Specifies the space after	Specifies the space	Specifies the space after
SPACEAFTER	the paragraphs.	after the paragraphs.	the paragraphs.
CDACEBEEODE	Specifies the space	Specifies the space	Specifies the space before
SPACEBEFORE	before the paragraphs.	before the paragraphs.	the paragraphs.
	Specifies the gutter	Specifies the gutter	Specifica the gutton width
COLUMNGAP	width for split	width for split	Specifies the gutter width
	columns.	columns.	for split columns.
	Indicate that you want	Indicate that you want	Indicate that you want to
COLUMNRULEENABL	to apply a separator	to apply a separator	apply a separator line
ED (true false)	line between	line between	between coloumns.
	coloumns.	coloumns.	between coloumns.
COLUMNRULESTYLE	Specifies the style of	Specifies the style of	Specifies the style of the
COLOWINKOLESTILE	the column rule.	the column rule.	column rule.
COLUMNRULEWIDT	Specifies the width of	Specifies the width of	Specifies the width of the
Н	the column rule.	the column rule.	column rule.
COLUMNRULECOLO	Specifies the color of	Specifies the color of	Specifies the color of the
R	the column rule.	the column rule.	column rule.
	Specifies the shade of	Specifies the shade of	Specifies the shade of the
COLUMNRULESHADE	the color of the	the color of the	color of the column rule.
	column rule.	column rule.	color of the column fule.
COLUMNRULEOPACI	Specifies the opacity of	Specifies the opacity	Specifies the opacity of
TY	the color of the	of the color of the	the color of the column
1 1	column rule.	column rule.	rule.

COMPONENT (Modifier schema)

Element type	Construct	Modify	Deconstruct
COMPO NENT (empty)	COMPONEN T element typeThe component(s	The component(s) that make up an article. Required for ARTICLE element.	The component(s) that make up an article.

Element	Construct	Modify	Deconstruct
type			
) that make up an article. Required for ARTICLE element.		
Attribute	S		
OPERAT ION (CREAT E DELETE) #IMPLIE D	Not applicable.	Specifies whether to create or delete the specified component from the ARTICLE.	Not applicable.
NAME CDATA #IMPLIE D	The name given to a specific component in an ARTICLE. Required for COMPONEN T.	The name given to a specific component in an ARTICLE. Required for COMPONENT.	Specifies the name of the component in the ARTICLE.
UID CDATA #IMPLIE D	QuarkXPress Server automaticall y assigns a unique ID to components.	The unique ID of the COMPONENT to be modified.	Specified the unique ID of the COMPONENT to be modified.
BOXNA ME CDATA #IMPLIE D	box to which	Specifies the name of the user-assigned box to which the COMPONENT belongs.	Specifies the name of the user-assigned box to which the COMPONENT belongs.
BOXUI D CDATA #IMPLIE D	Not applicable.	Specifies the ID of the QuarkXPress Server-assigned box to which the COMPONENT belongs.	Specifies the ID of the QuarkXPress Server-assigned box to which the COMPONENT belongs.
COMPO NENTC LASS (CT_TE XT CT_PIC T CT_GR	Describes whether the component resides in a text box, picture box, or group.	Describes whether the component resides in a text box, picture box, or group.	Describes whether the component resides in a text box, picture box, or group.

Element	Comptune	M. J.C.	De acces at mos at
type	Construct	Modify	Deconstruct
OUP)			
"CT_TE			
XT"			
COMPO NENTTY PE CDATA #IMPLIE D	Not applicable.	Indicates the label applied to a component. Valid only for reflow articles and QuarkCopyDesk articles. Valid values include: Body Byline FigureCaption FigureCredit Headline Headline2 IndentedParagraph Pullquote SectionChapterName Title	Indicates the label applied to a component. Valid only for reflow articles and QuarkCopyDesk articles. Valid values include: Body Byline FigureCaption FigureCredit Headline Headline2 IndentedParagraph Pullquote SectionChapterName Title
		Title2 OrderedList UnorderedList	Title2 OrderedList UnorderedList
ROWNU M CDATA #IMPLIE D	If the component resides in a Table cell, the value will describe the row number.	If the component resides in a Table cell, the value will describe the row number.	If the component resides in a Table cell, the value will describe the row number.
COLNU M CDATA #IMPLIE D	If the component resides in a Table cell, the value will describe the column number.	If the component resides in a Table cell, the value will describe the column number.	If the component resides in a Table cell, the value will describe the column number.
COMPO NENTIN DEX CDATA #IMPLIE D	Not applicable.	Specifies the index (position) of this component in the project's reflow article. The first component has a value of zero. If you specify an invalid value, the component is placed at the end.	Specifies the index (position) of this component in the project's reflow article. The first component has a value of zero. If you specify an invalid value, the component is placed at the end.

COMPOSITIONZONE (Modifier schema)

Element type	Constru ct	Modify	Deconstruct
COMPOSITIONZONE (ID, (FRAME GEOMETRY SHADOW PAGEREF)*, INTERACTIVITY?)	COMPO SITIONZ ONE element typeNot applicab le.	Not applicab le.	Describes a Composition Zones item. (Applies only to the xml namespace.)
Attributes			
LAYOUTREF CDATA	Not	Not	Identifies the layout referenced by this Composition

Element type	Constru ct	Modify	Deconstruct
#IMPLIED	applicab le.	applicab le.	Zones item.
BOXTYPE (CT_TEXT CT_PICT CT_USER) #IMPLIED	Not applicab le.	Not applicab le.	Indicates CT_USER as the box type for a Composition Zones item.
TYPE (INTERNAL EXTERNAL) #IMPLIED	Not applicab le.	Not applicab le.	Indicates the Composition Zones items type.INTERNAL = A Composition Zones item that uses a layout within the same project.EXTERNAL = A Composition Zones item that uses a layout in a different project.
PATH CDATA #IMPLIED	Not applicab le.	Not applicab le.	Indicates the absolute path to an external composition layout.
COLOR CDATA #IMPLIED	Not applicab le.	Not applicab le.	Identifies a color applied to a Composition Zones item.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server, or an existing color created and saved in the project.
SHADE CDATA #IMPLIED	Not applicab le.	Not applicab le.	Specifies the shade of a color applied to a Composition Zones object, as an integer percentage from 0 to 100.
OPACITY CDATA #IMPLIED	Not applicab le.	Not applicab le.	Specifies the opacity of a color applied to a Composition Zones item, as an integer percentage from 0 to 100.
ANCHOREDIN CDATA #IMPLIED	Not applicab le.	Not applicab le.	Indicates an anchored Composition Zones and identifies its parent Composition Zones.
BLENDSTYLE (SOLID LINEAR MIDLINEAR RECTANGULAR DIAMOND CIRCULAR FULLCIRCULAR none) "none"	Not applicab le.	Not applicab le.	Specifies the type of blend applied to this box (linear, circular, rectangular, etc.).
BLENDANGLE CDATA #IMPLIED	Not applicab le.	Not applicab le.	Specifies the angle of the blend.
BLENDCOLOR CDATA #IMPLIED	Not applicab le.	Not applicab le.	Specifies the second color of the blend. The first color of the blend is the color applied to the box.
BLENDSHADE CDATA #IMPLIED	Not applicab le.	Not applicab le.	Specifies the shade applied to the second color of the blend, as an integer percentage from 0 to 100. The shade of the first color of the blend is the shade of the color applied to the box.
BLENDOPACITY CDATA #IMPLIED	Not applicab le.	Not applicab le.	Specifies the opacity applied to the second color of the blend, as an integer percentage from 0 to 100. The opacity of the first color of the blend is the opacity of

Element type	Constru ct	Modify	Deconstruct
			the color applied to the box.
HORIZONTALBINDI	Not	Not	If true, specifies that the Composition Zones item is
NG (true false)	applicab	applicab	constrained only horizontally to the size of its
#IMPLIED	le.	le.	composition layout.
VERTICALBINDING	Not	Not	If true, specifies that the Composition Zones item is
(true false)	applicab	applicab	constrained only vertically to the size of its composition
#IMPLIED	le.	le.	layout.
LAYOUTOPACITY CDATA #IMPLIED	Not applicab le.	Not applicab le.	Specifies the opacity of a Composition Zones item, as an integer percentage from 0 to 100.
SUPPRESSOUTPUT (true false) #IMPLIED	Not applicab le.	Not applicab le.	If true, specifies that this Composition Zones item should not be included in output.
PREVIEWPAGE CDATA #IMPLIED	Not applicab le.	Not applicab le.	Identifies the page shown by default in the layout.
OPERATION (CREATE DELETE) #IMPLIED	Lets you create or delete a Compos ition Zones item.	create or delete a	Not applicable.

CONDITIONALMASTERPAGEREFERENCE (Modifier schema)

Element type	Construct	Modify	Deconstruct	
		CONDITIONALMASTE RPAGEREFERENCE		
		element typeLets you		
CONDITIONALMASTE		specify the master page		
RPAGEREFERENCE ()	Not applicable.	along with the	Not applicable.	
M'AGEREFERENCE ()		conditions that must be		
		satisfied to apply the		
		given master page on a		
		page.		
Attributes				
		Specifies the name of		
NAME	Not applicable.	the master page in	Not applicable.	
		QuarkXPress template	Two applicable.	
		to be used.		
		Specifies the position of		
		the page to which this		
POSITION	Not applicable.	master page will be	Not applicable.	
		applied. FIRST, LAST,		
		REST, ANY		
ODDOREVEN	Not applicable.		Not applicable.	

Element type	Construct	Modify	Deconstruct
		Specifies if the master	
		page to be applied on	
BLANKORNOTBLANK	Not applicable.	the page should be	Not applicable.
		blank or not blank.	
		BLANKORNOTBLANK	

CONTENT (Modifier schema)

TENT (#PC	CONTENT element typeSpecifies the path of an image or text file that you want to associate with the parent box. The CONTENT	Modify Specifies the path of an image or text file that you want to import into the parent box.Note: If you use the CONTENT element to import	Deconstruct Specifies the path of the image or text file (if any) associated with the parent
)	element also supports relative paths for images or text files.	text, the imported text is appended to the end of any existing text in the box.	box.
Attribu	ites		
PICT UREC ONT ENTL OCK (true false) "true	Specifies whether picture content is locked.	Specifies whether picture content is locked.	Specifies whether picture content is locked.
QUO TES	If true, straight quotation marks in an imported text file are converted to typesetter's quotation marks and double hyphens are converted to em dashes.	If true, straight quotation marks in an imported text file are converted to typesetter's quotation marks and double hyphens are converted to em dashes.	Not applicable.
INCL UDES TYLE SHEE TS (true false) "true	If true, any style sheets in an imported text file are added to the QuarkXPress project.	If true, any style sheets in an imported text file or document are added to the QuarkXPress project.	Not applicable.
1	Specifies a font to apply to imported text.	Specifies a font to apply to imported text.	Not applicable.

Elem			
ent	Construct	Modify	Deconstruct
type		,	
Е			
CDAT			
A			
#IMP			
LIED			
PAGE			
TOIM			
PORT	Indicates the page number of	Indicates the page number of	Indicates the page number of
CDAT	an imported PDF.	an imported PDF.	an imported PDF.
A	an imported FDF.	an imported FDF.	an imported PDF.
#IMP			
LIED			
BOU			
NDIN	Identifies the bounding box	Identifies the bounding box	Identifies the bounding box
GBO	type for an imported PDF.	type for an imported PDF.	type for an imported PDF.
X	MEDIABOX includes the full	MEDIABOX includes the full	MEDIABOX includes the full
(MED	imageable area. CROPBOX is	imageable area. CROPBOX is	imageable area. CROPBOX is
IABO	the portion of the page that	the portion of the page that	the portion of the page that
X	should be visible (not	should be visible (not	should be visible (not
CROP	typically used for prepress).	typically used for prepress).	typically used for prepress).
BOX	BLEEDBOX is the area	BLEEDBOX is the area	BLEEDBOX is the area
BLEE	defined by the crop marks,	defined by the crop marks,	defined by the crop marks,
DBO	plus 3-5 additional	plus 3-5 additional	plus 3-5 additional
X	millimeters. TRIMBOX is the	millimeters. TRIMBOX is the	millimeters. TRIMBOX is the
TRIM	area defined by the crop	area defined by the crop	area defined by the crop
BOX)	marks (in other words, the	marks (in other words, the	marks (in other words, the
#IMP	finshed page size).	finshed page size).	finshed page size).
LIED			
MAIN			
TAIN			
PICT			
UREA			
TTRI		If true, maintains the picture	
BUTE	Not applicable.	attributes when importing a	Not applicable.
S		new picture.	
(true			
false)			
#IMP			
LIED			
MAIN		If true, maintains the	
TAIN		runaround and clipping	
CLIP		applied to a picture when	
PING		reimporting the picture.	
AND	Not applicable.	Default value is false.	Not applicable.
RUN		Clipping and runaround are	
ARO		not maintained if you do not	
UND		specify this attribute in the	

Elem ent type	Construct	Modify	Deconstruct
(true false) #IMP LIED		CONTENT element.	
CON DITI ONA LSTY LE CDAT A #IMP LIED	Identifies the conditional style (if any) to be associated with the content specified in the CONTENT node.	Identifies the conditional style (if any) to be associated with the content specified in the CONTENT node.	Not applicable.

CONTENTPH (Modifier schema)

Ele men t type	Construct	Modify	Deconstr uct
CO NTE NTP H ((CO NTE NT), MET ADA TA?)	CONTENTPH element typePlaceholder that will contain either text or picture data from a linked file.	Placeholder that will contain either text or picture data from a linked file.	Placehol der that will contain either text or picture data from a linked file.
Attrib	outes		
NA ME CDA TA #RE QUI RED	The name of the content placeholder (CONTENTPH).	The name of the content placeholder (CONTENTPH).	The name of the content placehol der (CONTE NTPH).
OW NER (134 7639 377) "134	The XTensions ID of the XTensions that created this placeholder. The default XT ID is PlaceHolderSXT ID (1347639377). All placeholders created through Modifier should use this ID. This ID is assigned by default by the DTD, so there	The XTensions ID of the XTensions that created this placeholder. The default XT ID is PlaceHolderSXT ID (1347639377). All placeholders created through Modifier should use this ID. This ID is assigned by default by the DTD, so there	The XTensio ns ID of the XTensio ns that

Ele men t type	Construct	Modify	Deconstr uct
7639 377"	is no need to specify this manually. DTD validation will add this attribute.	is no need to specify this manually. DTD validation will add this attribute.	created this placehol der.

CONTINUEDHEADER (Modifier schema)

Element type	Construct	Modify	Deconstruct		
CONTINUEDHEADER (ROW*)	CONTINUEDHEADE R element typeIdentifies a continued table header.	Identifies a continued table header.	Identifies a continued table header.		
Attributes	Attributes				
APPLIEDTO (NOHEADERROW FIRSTHEADERROW ALLHEADERROWS) #IMPLIED	Specifies which header rows are continued header rows.	Specifies whether only the first header row or all header rows should be considered a continued header.	Specifies which header rows are continued header rows.		

CONTINUEDTROWSTYLE (Modifier schema)

Element type	Construct	Modify	Deco nstru ct
CONTINUEDTROWSTYLE	CONTINUEDTROWSTYLE element	Defines a style for	Not
(TOPGRID?,	typeDefines a style for "continued"	"continued" rows in	appli
BOTTOMGRID?)	rows in an <inlinetable>.</inlinetable>	an <inlinetable>.</inlinetable>	cable.
Attributes			
PARASTYLE CDATA	Identifies the paragraph style sheet for	Identifies the	Not
#IMPLIED	the row style.	paragraph style sheet	appli
#IMIF LIED	the low style.	for the row style.	cable.
ALIGNMENT (LEFT RIGHT	Identifies the paragraph alignment for	Identifies the	Not
CENTER JUSTIFIED	the row style.	paragraph alignment	appli
FORCED) #IMPLIED	the low style.	for the row style.	cable.
ANGLE CDATA #IMPLIED	Identifies the text angle for the row style.	Identifies the text angle for the row style.	Not appli cable.
VALIGN (TOP CENTER	Specifies the vertical alignment of the	Specifies the vertical	Not
BOTTOM) #IMPLIED	row style.	alignment of the row	appli
BOTTOWI) #IIVII EILD	low style.	style.	cable.
	Specifies the background color of the	Specifies the	Not
COLOR CDATA #IMPLIED	row style.	background color of	appli
	10w style.	the row style.	cable.

Element type	Construct	Modify	Deco nstru ct
SHADE CDATA #IMPLIED	Specifies the background shade of the row style.	Specifies the background shade of the row style.	Not appli cable.
INSET CDATA #IMPLIED	Specifies the text inset of the row style.	Specifies the text inset of the row style.	Not appli cable.

CONTOUR (Modifier schema)

Element type	Construct	Modify	Deconstruct				
CONTOUR (VERTICES)	CONTOUR element typeA single contour within a spline shape.	A single contour within a spline shape.	A single contour within a spline shape.				
Attributes	Attributes						
CURVEDEDGE	Specifies whether there are	Specifies whether there are	Specifies whether there are				
S (true false)	any curved edges in the	any curved edges in the	any curved edges in the				
"false"	contour.	contour.	contour.				
RECTCONTO UR (true false) "false"	Specifies whether this contour is rectangular.	Specifies whether this contour is rectangular.	Specifies whether this contour is rectangular.				
INVERTEDCO NTOUR (true false) "false"	Specifies whether the points describe a hole instead of an outside contour.	Specifies whether the points describe a hole instead of an outside contour.	Specifies whether the points describe a hole instead of an outside contour.				
TOPLEVEL	Specifies whether the	Specifies whether the	Specifies whether the				
(true false)	contour has no containing	contour has no containing	contour has no containing				
"false"	contours.	contours.	contours.				
SELFINTERSEC TED (true false) "false"	Specifies whether the contour intersects itself.	Specifies whether the contour intersects itself.	Specifies whether the contour intersects itself.				
POLYCONTO	Specifies whether this is a	Specifies whether this is a	Specifies whether this is a				
UR (true	polycontour (as opposed	polycontour (as opposed	polycontour (as opposed				
false) "false"	to a spline contour).	to a spline contour).	to a spline contour).				
VERTEXTAGE	Specifies whether there are	Specifies whether there are	Specifies whether there are				
XISTS (true	vertex tags associated with	vertex tags associated with	vertex tags associated with				
false) "false"	the contour.	the contour.	the contour.				

CONTOURS (Modifier schema)

Element type	Construct	Modify	Deconstruct
CONTOU RS (CONTOU R+)	CONTOURS element typeA group of contours which, combined, make a spline shape.	A group of contours which, combined, make a spline shape.	A group of contours which, combined, make a spline shape.

COPYFIT (Modifier schema)

Element type	Construct	Modif y	Deconstruct
COPYFIT (empty)	COPYFIT element typeNot applicable.	Not applic able.	Indicates whether the copy in this text box or chain fits the available space.
Attributes	-		
STATE (fit overFit underFit) "fit"	Not applicable.	Not applic able.	Indicates whether the text currently fits in the box (fit), is too long (overFit), or is too short (underFit).
FITAMOUNT CDATA #IMPLIED	Not applicable.	Not applic able.	Indicates the vertical distance in points by which text in a text box is overFit or underFit. See the STATE element.
NUMBEROFCHARA CTERS CDATA #IMPLIED	Not applicable.	Not applic able.	Indicates how many characters are included in the story.
NUMBEROFWORDS CDATA #IMPLIED	Not applicable.	Not applic able.	Indicates how many words are included in the story.
NUMBEROFLINES CDATA #IMPLIED	Not applicable.	Not applic able.	Indicates how many lines are included in the story.
FITLINEAMOUNT CDATA #IMPLIED	Not applicable.	Not applic able.	Indicates how many lines the text is overfit or underfit.
STORYDEPTHAMO UNT CDATA #IMPLIED	Not applicable.	Not applic able.	Not applicable.

COPYRIGHT (Modifier schema)

Element type	Construct	Modify	Deconstruct
COPYRIGH	COPYRIGHT	Part of the <ebookmetadata> element.</ebookmetadata>	Specifies copyright
Т	element typeNot	Specifies copyright information for an e-	information for an e-
(#PCDATA)	applicable.	book.	book.

DATAPROVIDER (Modifier schema)

Element type	Construct	Mo dify	Deconstruct
DATAPRO VIDER (empty)	DATAPROVI DER element typeNot applicable.	Not app lica ble.	Provides information about the XTensions module through which interactivity is applied to a box.
Attributes			

Element type	Construct	Mo dify	Deconstruct
DATAPRO		Not	Provides information about the XTensions module through which
VIDERXTI	Not	app	interactivity is applied to a box. For example, if interactivity is
D CDATA	applicable.	lica	provided through a built-in QuarkXPress XTensions module, this
#IMPLIED		ble.	value is QDPC (Quark Digital Publishing Core).

DEL (Modifier schema)

Element type	Construct	Modify	Deconstruct			
DEL (#PCDATA)	DEL element typeDescribes a	Describes a tracked	Describes a tracked			
DEL (#FCDATA)	tracked deletion in text.	deletion in text.	deletion in text.			
Attributes	Attributes					
CREATEDBY	Not applicable.	Not applicable.	The username of the			
CDATA #IMPLIED	тчос аррисавіе.	Not applicable.	deleter.			
CREATEDON	Not applicable	Not applicable	The deletion date.			
CDATA #IMPLIED	Not applicable.	Not applicable.	The defetion date.			

DELETECELLS (Modifier schema)

Element type	Construct	Modify	Deconst ruct
DELETECELLS (empty)	DELETECELLS element typeNot applicable.	Deletes cells from an existing table.	Not applica ble.
ATTLIST DELETECELLS</td <td></td> <td></td> <td></td>			
TYPE (ROW COLUMN HEADER FOOTER) #REQUIRED	Not applicable.	Specifies whether to delete rows, columns, headers, or footers.	Not applica ble.
BASEINDEX CDATA #REQUIRED	Not applicable.	Specifies the index number of the first cell to be deleted.	Not applica ble.
DELETECOUNT CDATA #REQUIRED	Not applicable.	Specifies how many cells to delete.	Not applica ble.

DESCRIPTION (Modifier schema)

Element type	Construct	Modify	Deconstruct
DESCRIPTIO	DESCRIPTION	Part of the <ebookmetadata></ebookmetadata>	Specifies a
N	element typeNot	element. Specifies a description for an e-	description for an
(#PCDATA)	applicable.	book.	e-book.

DROPCAP (Modifier schema)

Elem ent type	Construct	Modify	Deconstruct
DRO PCA P (em pty)	DROPCAP element typeDescribes a drop-capital effect at the beginning of a paragraph, which is when initial characters display at a large size and hang two or more lines below the first line of a paragraph.	Describes a drop-capital effect at the beginning of a paragraph, which is when initial characters display at a large size and hang two or more lines below the first line of a paragraph.	Describes a drop-capital effect at the beginning of a paragraph, which is when initial characters display at a large size and hang two or more lines below the first line of a paragraph.
Attrib	outes		
CHA RCO UNT CDA TA #RE QUI RED	Specifies how many characters should be included in a drop-cap effect.	Specifies how many characters should be included in a drop-cap effect.	Specifies how many characters are included in a drop-cap effect.
LINE COU NT CDA TA #RE QUI RED	Specifies the number of lines a drop-caps should hang in the paragraph.	Specifies the number of lines a drop-caps should hang in the paragraph.	Specifies the number of lines drop-caps hang in the paragraph.

EBOOKMETADATA (Modifier schema)

Element type	Construct	Modify	Deconstruct
EBOOKMETADATA (TITLE AUTHOR	EBOOKMETA	Defines a variety of	Defines a variety of
PUBLISHER COPYRIGHT ISBN	DATA element	metadata for a layout	metadata for a layout
DESCRIPTION KEYWORDS	typeNot	to be exported as an	to be exported as an
SPINEIMAGE)*	applicable.	e-book.	e-book.

ENTRY (Modifier schema)

Element type ENTRY (#PCDATA RICHTEXT PARAGRAPH CONTENT PICTURE)*	ENTRY element typeDescribes a cell in an <inlinetable>.</inlinetable>	Modify Describes a cell in an <inlinetable>.</inlinetable>	D ec o ns tr uc t N ot ap pli ca bl e.
Attributes		T	NT
WIDTH CDATA #IMPLIED	Specifies the width of the cell, either as an absolute measurement or as a percentage of the table width. To specify a percentage, use %. If you do not specify a width, cell widths are distributed evenly.	Specifies the width of the cell, either as an absolute measurement or as a percentage of the table width. To specify a percentage, use %. If you do not specify a width, cell widths are distributed evenly.	ot ap pli ca bl e.
COLOR CDATA #IMPLIED	Specifies the background color of the cell.	Specifies the background color of the cell.	ot ap pli ca bl e.
SHADE CDATA #IMPLIED	Specifies the background shade of the cell.	Specifies the background shade of the cell.	N ot ap pli ca bl e.
COLSPAN CDATA #IMPLIED	If specified, indicates that this cell is merged with the following number of cells. For example, COLSPAN="2" merges this cell with the next one.	If specified, indicates that this cell is merged with the following number of cells. For example, COLSPAN="2" merges this cell with the next one.	N ot ap pli ca bl e.
ROWSPAN CDATA #IMPLIED	If specified, indicates that this cell is merged with the following number of cells. For example, ROWSPAN="2" merges this cell with the one below it.	If specified, indicates that this cell is merged with the following number of cells. For example, ROWSPAN="2" merges this cell with the one below it.	N ot ap pli ca

Element type	Construct	Modify	D ec o ns tr uc t
			bl e.
ANGLE	Specifies the angle of the cell.	Specifies the angle of the cell.	N ot ap pli ca bl
VALIGN	Specifies the vertical alignment of the cell.	Specifies the vertical alignment of the cell.	ot ap pli ca bl e.
ALIGNMENT	Specifies the alignment of the cell.	Specifies the alignment of the cell.	N ot ap pli ca bl e.

EVENTCOLSTYLE (Modifier schema)

Element type	Construct	Modify	Decon struct
EVENTCOLSTYLE (LEFTGRID?, RIGHTGRID?) Attributes	EFTGRID?, style for even columns in an <pre><inlinetable>.</inlinetable></pre>		Not applica ble.
WIDTH CDATA #IMPLIED	Specifies the width of the column style.	Specifies the width of the column style.	Not applica ble.
COLOR CDATA #IMPLIED	Specifies the background color of the column style.	Specifies the background color of the column style.	Not applica ble.
SHADE CDATA #IMPLIED	Specifies the background shade of the column style.	Specifies the background shade of the column style.	Not applica ble.

EVENTROWSTYLE (Modifier schema)

Element type	Construct	Modify	Decon
7.1		,	struct
EVENTROWSTYLE	EVENTROWSTYLE element	Defines a style for	Not
(TOPGRID?, BOTTOMGRID?)	typeDefines a style for even rows in	even rows in an	applic
(TOTGKID:, BOTTOMGKID:)	an <inlinetable>.</inlinetable>	<inlinetable></inlinetable>	able.
Attributes			_
	Identifies the paragraph style sheet	Identifies the	Not
PARASTYLE CDATA #IMPLIED		paragraph style sheet	applic
	for the row style.	for the row style.	able.
ALIGNMENT (LEFT RIGHT	Identification and an area and all areas and	Identifies the	Not
CENTER JUSTIFIED	Identifies the paragraph alignment	paragraph alignment	applic
FORCED) #IMPLIED	for the row style.	for the row style.	able.
		Identifies the text	Not
ANGLE CDATA #IMPLIED	Identifies the text angle for the row	angle for the row	applic
	style.	style.	able.
VALION (TOD CENTED	Constitution and all all and and aff	Specifies the vertical	Not
VALIGN (TOP CENTER	Specifies the vertical alignment of	alignment of the row	applic
BOTTOM) #IMPLIED	the row style.	style.	able.
	Constitution to the standard and a standard	Specifies the	Not
COLOR CDATA #IMPLIED	Specifies the background color of	background color of	applic
	the row style.	the row style.	able.
	Constitution of the land of th	Specifies the	Not
SHADE CDATA #IMPLIED	Specifies the background shade of	background shade of	applic
	the row style.	the row style.	able.
		0 10 11 1 11	Not
INSET CDATA #IMPLIED	Specifies the text inset of the row	Specifies the text inset	applic
	style.	of the row style.	able.

FIRSTTCOLSTYLE (Modifier schema)

Element type	Construct	Modify	Decon struct
FIRSTTCOLSTYLE	FIRSTTCOLSTYLE element typeDefines a	Defines a style for the first	Not
(LEFTGRID?,	style for the first column in an	column in an	applic
RIGHTGRID?)	<inlinetable>.</inlinetable>	<inlinetable>.</inlinetable>	able.
Attributes			
WIDTH CDATA #IMPLIED	Specifies the width of the column style.	Specifies the width of the column style.	Not applic able.
COLOR CDATA #IMPLIED	Specifies the background color of the column style.	Specifies the background color of the column style.	Not applic able.
SHADE CDATA #IMPLIED	Specifies the background shade of the column style.	Specifies the background shade of the column style.	Not applic able.

FIT (Modifier schema)

Element type	Construct	Modify	D ec o ns tr uc t
FIT (MAX, MIN)	FIT element typeLets you resize a box to fit its text or picture, within the limitations specified by the <max> and <min> elements. A box will expand or shrink only until it reaches the <min> or <max> size.</max></min></min></max>	Lets you resize a box to fit its text or picture, within the limitations specified by the <max> and <min> elements. A box will expand or shrink only until it reaches the <min> or <max> size.</max></min></min></max>	ot ap pli ca bl e.
Attributes POINT (TOPLEFT			\square
TOP TOPRIGHT RIGHT BOTTOMRIGHT BOTTOM BOTTOMLEFT LEFT CENTER) #REQUIRED	Lets you specify the direction in which the box should be resized. To resize the box from the center, use "CENTER".	Lets you specify the direction in which the box should be resized. To resize the box from the center, use "CENTER".	N ot ap pli ca bl e.
AVOIDBOXESBY CDATA #IMPLIED	Lets you specify the distance between the POINT side or corner of a resized box and any other items around it. A box will expand only until it is this distance from an adjacent item.	Lets you specify the distance between the POINT side or corner of a resized box and any other items around it. A box will expand only until it is this distance from an adjacent item.	N ot ap pli ca bl e.
PROPORTIONAL (true false) "false"	Lets you specify whether the resized box should have the same aspect ratio as the original box.	Lets you specify whether the resized box should have the same aspect ratio as the original box.	N ot ap pli ca bl e.

FITTEXT (Modifier schema)

Ele men t type	Construct	Modify	D ec o ns tr uc t
FITT EXT (EM PTY)	FITTEXT element type Lets you control text-fitting options at the story level, rather than using application-level text-fitting options. Note: The FITTEXTTOBOX attribute fits text to a box with the application-level text fitting defaults.	FITTEXT element type Lets you control text-fitting options at the story level, rather than using application-level text-fitting options. Note: The FITTEXTTOBOX attribute fits text to a box with the application-level text fitting defaults.	ot ap pli ca bl e.
Attrib	putes		\blacksquare
ALL OW TEX TTO GRO W (true false) "fals e"	If true, text will grow if the box is underfit and shrink if the box is overfit. If false, text can shrink but cannot grow.	If true, text will grow if the box is underfit and shrink if the box is overfit. If false, text can shrink but cannot grow.	N ot ap pli ca bl e.
SCA LIN GIN CRE ME NT CDA TA "5"	Indicates the percentage by which text size, baseline shift, tracking, and so forth will be incremented or decremented until the text fits.	Indicates the percentage by which text size, baseline shift, tracking, and so forth will be incremented or decremented until the text fits.	N ot ap pli ca bl e.
MA XFO NTSI ZE CDA TA #IM PLIE D	Indicates the maximum font size that can be used for text fitting. The default value is the maximum text size allowed by QuarkXPress (3184 pt).	Indicates the maximum font size that can be used for text fitting. The default value is the maximum text size allowed by QuarkXPress (3184 pt).	N ot ap pli ca bl
MIN FON TSIZ	Indicates the minimum font size that can be used for text fitting. The default value is the minimum text size allowed by	Indicates the minimum font size that can be used for text fitting. The default value is the minimum text size allowed by	N ot ap

Ele men t type E CDA TA #IM PLIE D	Construct QuarkXPress (2 pt).	Modify QuarkXPress (2 pt).	D ec o ns tr uc t pli ca bl e.
LET RAC KIN G (true false) "fals e"	If true, tracking can be changed during text fitting operations. If false, tracking cannot be changed during text fitting operations.	If true, tracking can be changed during text fitting operations. If false, tracking cannot be changed during text fitting operations.	N ot ap pli ca bl e.
FT	If true, baseline shift can be changed during text fitting operations. If false, baseline shift cannot be changed during text fitting operations.	If true, baseline shift can be changed during text fitting operations. If false, baseline shift cannot be changed during text fitting operations.	N ot ap pli ca bl e.
SCA LET EXT SCA LIN G (true false) "fals e"	If true, horizontal/vertical scale can be changed during text fitting operations. If false, horizontal/vertical scale cannot be changed during text fitting operations. If horizontal scaling has been applied to text, only horizontal scaling will be changed. The same is true for vertical scaling. Horizontal and vertical scaling cannot be adjusted simultaneously.	If true, horizontal/vertical scale can be changed during text fitting operations. If false, horizontal/vertical scale cannot be changed during text fitting operations. If horizontal scaling has been applied to text, only horizontal scaling will be changed. The same is true for vertical scaling. Horizontal and vertical scaling cannot be adjusted simultaneously.	N ot ap pli ca bl e.

FOOTER (Modifier schema)

Element type	Construct	Modify	Deconstruct
FOOTER (ROW*)	FOOTER element typeSpecifies if	Specifies if the row is	Indicates if the row is
FOOTER (ROW")	the row is to be a footer row.	to be a footer row.	to be a footer row.
Attributes			
FOOTERROWS		Specifies number of	Specifies number of
CDATA	Specifies number of footer row.	_ *	footer row.
#IMPLIED		Tooler row.	Tooler row.

FOOTERTROWSTYLE (Modifier schema)

Element type	Construct	Modify	Deco nstruc t
FOOTERTROWSTYLE	FOOTERTROWSTYLE element	Defines a style for	Not
(TOPGRID?, BOTTOMGRID?)	71	footer rows in an	applic
, , ,	an <inlinetable>.</inlinetable>	<inlinetable>.</inlinetable>	able.
Attributes			
	Identifies the paragraph style sheet	Identifies the	Not
PARASTYLE CDATA #IMPLIED	for the row style.	paragraph style sheet	applic
	for the fow style.	for the row style.	able.
ALIGNMENT (LEFT RIGHT	Identifies the paragraph alignment	Identifies the	Not
CENTER JUSTIFIED	for the row style.	paragraph alignment	applic
FORCED) #IMPLIED	for the low style.	for the row style.	able.
	Identifies the text angle for the row style.	Identifies the text	Not
ANGLE CDATA #IMPLIED		angle for the row	applic
	style.	style.	able.
VALIGN (TOP CENTER	pecifies the vertical alignment of	Specifies the vertical	Not
BOTTOM) #IMPLIED	the row style.	alignment of the row	applic
BOTTOM) #IMPLIED	the low style.	style.	able.
	Specifies the background color of the	Specifies the	Not
COLOR CDATA #IMPLIED	row style.	background color of	applic
	low style.	the row style.	able.
	Specificatha background shade of	Specifies the	Not
SHADE CDATA #IMPLIED	Specifies the background shade of	background shade of	applic
	the row style.	the row style.	able.
	Specifies the text inset of the reve	Specifies the toyt inset	Not
INSET CDATA #IMPLIED	Specifies the text inset of the row	Specifies the text inset	applic
	style.	of the row style.	able.

FORMAT (Modifier schema)

Element type	Construct	Modify	Deconstruct
(KEEPLINEST OGETHER?.	FORMAT element typeDescribes formatting for a PARAGRAPH element.	ŭ .	Describes formatting for a PARAGRAPH element.

Element type	Construct	Modify	Deconstruct
LOCKTOGRI		,	
D?,			
BNSTYLE?,			
SHADINGST			
YLE?)			
Attributes	<u>!</u>	<u>!</u>	
SPACEBEFOR	Describes the amount of	Describes the amount of	Describes the amount of
E CDATA	Describes the amount of space before a paragraph.	space before a paragraph.	space before a paragraph.
#IMPLIED	space before a paragraph.	space before a paragraph.	space before a paragraph.
SPACEAFTER	Describes the amount of	Describes the amount of	Describes the amount of
CDATA	space after a paragraph.	space after a paragraph.	space after a paragraph.
#IMPLIED			
LEFTINDENT	Describes the amount of	Describes the amount of	Describes the amount of
CDATA	space in a paragraphs left	space in a paragraphs left	space in a paragraphs left
#IMPLIED	indent.	indent.	indent.
RIGHTINDE	Describes the amount of	Describes the amount of	Describes the amount of
NT CDATA	space in a paragraphs right	space in a paragraphs right	space in a paragraphs right
#IMPLIED	indent.	indent.	indent.
FIRSTLINE	Describes the amount of	Describes the amount of	Describes the amount of
CDATA	space in a paragraphs first-	space in a paragraphs first-	space in a paragraphs first-
#IMPLIED	line indent.	line indent.	line indent.
LEADING	Describes a paragraphs line	Describes a paragraphs line	Describes a paragraphs line
CDATA	spacing.	spacing.	spacing.
#IMPLIED	Indicates whether a	Indicates whether a	Indicates whether a
	paragraph should be left-	paragraph should be left-	paragraph is left-aligned,
ALIGNMENT	l* ° '	aligned, right-aligned,	right-aligned, centered,
(LEFT	centered, justified, or force-	centered, justified, or force-	justified, or force-
RIGHT	justified.Note: JUSTIFIED	justified.Note: JUSTIFIED	justified.Note: JUSTIFIED
CENTERED	aligns the text in a	aligns the text in a	aligns the text in a
1 '	paragraph to the left and	paragraph to the left and	paragraph to the left and
FORCED)	right indentations, except	right indentations, except	right indentations, except
"LEFT"	for the last line. FORCED	for the last line. FORCED	for the last line. FORCED
	justifies every line,	justifies every line,	justifies every line,
	including the last line.	including the last line.	including the last line.
	Identifies a hyphenation	Identifies a hyphenation	Identifies the hyphenation
	and justification	and justification	and justification
	specification to be applied	specification to be applied	specification applied to a
	to a paragraph.Note: Only	to a paragraph.Note: Only	paragraph.Note: Only the
	the name of an H&J	the name of an H&J	name of an H&J
HANDJ	specification is included in	specification is included in	specification is included in
CDATA	this attribute. The	this attribute. The	this attribute. The
#IMPLIED	definition of the H&J	definition of the H&J	definition of the H&J
	specification is stored in	specification is stored in	specification is stored in
	the projects Job Jackets file	the projects Job Jackets file	the projects Job Jackets file
	or defined using the	or defined using the	or defined using the
	Document Controls	Document Controls	Document Controls
	submenu in QuarkXPress	submenu in QuarkXPress	submenu in QuarkXPress
	Server.	Server.	Server.

Element type	Construct	Modify	Deconstruct
EXT (true false none) "none"	Specifies whether the last lines of a paragraph should always appear on the same page as the next paragraph.	Specifies whether the last lines of a paragraph should always appear on the same page as the next paragraph.	Specifies whether the last lines of a paragraph should always appear on the same page as the next paragraph.
HANGINGC HARACTERS CDATA #IMPLIED	Describes the hanging character set used by this paragraph.	Describes the hanging character set used by this paragraph.	Describes the hanging character set used by this paragraph.
CHARACTER ALIGNMENT (ROMANBAS ELINE EMBOXTOP EMBOXCEN TER EMBOXBOT TOM ICFBOXTOP ICFBOXTOP ICFBOXBOT TOM) "ROMANBAS	Defines the character alignment used by this paragraph. For a story with horizontal direction, EMBOXTOP, EMBOXBOTTOM, ICFBOXTOP, ICFBOXBOTTOM are applicable. For a story with vertical direction, EMBOXRIGHT, EMBOXLEFT, ICFBOXRIGHT, ICFBOXLEFT are applicable.	Defines the character alignment used by this paragraph. For a story with horizontal direction, EMBOXTOP, EMBOXBOTTOM, ICFBOXTOP, ICFBOXBOTTOM are applicable. For a story with vertical direction, EMBOXRIGHT, ICFBOXLEFT, ICFBOXLEFT, ICFBOXLEFT are applicable.	Defines the character alignment used by this paragraph. For a story with horizontal direction, EMBOXTOP, EMBOXBOTTOM, ICFBOXTOP, ICFBOXBOTTOM are applicable. For a story with vertical direction, EMBOXRIGHT, ICFBOXLEFT, ICFBOXLEFT, ICFBOXLEFT are applicable.
ELINE" MOJIGUMIS ET CDATA #IMPLIED	Identifies the mojigumi set (if any) applied to this paragraph.	Identifies the mojigumi set applied to this paragraph.	Identifies the mojigumi set (if any) applied to this paragraph.
BACKGROU NDCOLOR CDATA #IMPLIED	Specifies a background color to be inserted behind the text. This color displays only in rendered output, and is not saved with the project file.	Specifies a background color to be inserted behind the text. This color displays only in rendered output, and is not saved with the project file.	Not applicable.
OPACITY CDATA #IMPLIED	Specifies the opacity of a background color to be inserted behind the text. This color displays only in rendered output, and is not saved with the project file.	Specifies the opacity of a background color to be inserted behind the text. This color displays only in rendered output, and is not saved with the project file.	Not applicable.

FRAME (Modifier schema)

Ele m en t ty pe FR A M E	Construct FRAME element typeDescribes a box frame.	Modify Describes a box frame.	Deconstruct Describes a box frame.
m pt y)	ributes		
ST			
YL E C D AT A #I M PL IE D	Specifies a Dashes & Stripes style for a frame.	Specifies a Dashes & Stripes style for a frame.	Specifies a Dashes & Stripes style for a frame.
W ID T H C D AT A #I M PL IE D	Specifies the thickness of a frame in points as a floating point value.	Specifies the thickness of a frame in points as a floating point value.	Specifies the thickness of a frame in points as a floating point value.
O R C D	Identifies the color of a frame.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document	Identifies the color of a frame.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server, or an	Identifies the color of a frame.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server,

Elo			
Ele m en t ty pe	Construct	Modify	Deconstruct
#I M PL IE D	Controls submenu in QuarkXPress Server.	existing color created and saved in the project.	or an existing color created and saved in the project.
SH A DE C D AT A #I M PL IE D	Specifies the shade of the color applied to a frame, as an integer percentage from 0 to 100.	Specifies the shade of the color applied to a frame, as an integer percentage from 0 to 100.	Specifies the shade of the color applied to a frame, as an integer percentage from 0 to 100.
OP A CI TY C D AT A #I M PL IE D	Specifies the opacity of a frame, specified as an integer percentage from 0 to 100.	Specifies the opacity of a frame, specified as an integer percentage from 0 to 100.	Specifies the opacity of a frame, specified as an integer percentage from 0 to 100.
G AP C OL O R C D AT A #I M PL IE	Identifies the color of a frame gap.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server.	Identifies the color of a frame gap.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server, or an existing color created and saved in the project.	Identifies the color of a frame gap.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server.

Ele m en t ty pe	Construct	Modify	Deconstruct
G AP SH A DE C D AT A #I M PL IE D	Specifies the shade of the color applied to a frame gap, as an integer percentage from 0 to 100.	Specifies the shade of the color applied to a frame gap, as an integer percentage from 0 to 100.	Specifies the shade of the color applied to a frame gap, as an integer percentage from 0 to 100.
G AP OP A CI TY C D AT A #I M PL IE D	Specifies the opacity of the gap color of a frame, specified as an integer percentage from 0 to 100.	Specifies the opacity of the gap color of a frame, specified as an integer percentage from 0 to 100.	Specifies the opacity of the gap color of a frame, specified as an integer percentage from 0 to 100.

GEOMETRY (Modifier schema)

Element type	Construct	Modify	Deconstruct
GEOMETRY ((POSITION RELPOSITIO N)? MOVEUP MOVEDOWN MOVELEFT MOVERIGHT	GEOMETRY element typeDescribes the geometric characteristics of a box or line.	Describes the geometric characteristics of a box or line, and allows you to change its position and size.	Describes the geometric characteristics of a box or line.

Element type	Construct	Modify	Deconstruct
GROWACRO		,	
SS			
GROWDOW			
N			
SHRINKACR			
OSS			
SHRINKDOW			
N I			
ALLOWBOX			
ONTOPASTEB			
OARD			
ALLOWBOX			
OFFPAGE			
STACKINGOR			
DER			
SUPPRESSOU			
TPUT			
RUNAROUN			
D			
LINESTYLE			
SPLINESHAPE			
FIT)*)			
Attributes			
	Describes the shape of a	Describes the shape of a	Describes the shape of a
	box or line.SH_RECT =	box or line.SH_RECT =	box or line.SH_RECT =
SHAPE	Rectangular	Rectangular	Rectangular
(SH_RECT	boxSH_CONVEXRRECT =	boxSH_CONVEXRRECT =	boxSH_CONVEXRRECT =
SH_CONVEX	Box with convex	Box with convex	Box with convex
RRECT	cornersSH_CONCAVERREC	cornersSH_CONCAVERREC	cornersSH_CONCAVERRE
SH_CONCAV	T = Box with concave	T = Box with concave	CT = Box with concave
ERRECT	cornersSH_STRAIGHTRREC	cornersSH_STRAIGHTRREC	cornersSH_STRAIGHTRRE
SH_STRAIGH	T = Box with beveled	T = Box with beveled	CT = Box with beveled
TRRECT	cornersSH_OVAL =	cornersSH_OVAL =	cornersSH_OVAL =
SH_OVAL	Elliptical boxSH_LINE =	Elliptical boxSH_LINE =	Elliptical boxSH_LINE =
SH_LINE	LineSH_ORTHLINE =	LineSH_ORTHLINE =	LineSH_ORTHLINE =
SH_ORTHLIN	Orthogonal line (restricted	Orthogonal line (restricted	Orthogonal line
E	to 45-degree	to 45-degree	(restricted to 90-degree
SH_SPLINEB	angles)SH_SPLINEBOX =	angles)SH_SPLINEBOX =	angles)SH_SPLINEBOX =
OX	Freehand shapeSH_NONE =	Freehand shapeSH_NONE =	Freehand
SH_NONE	Available to define in XDK	Available to define in XDK	shapeSH_NONE =
SH_ORTHPO	APISH_ORTHPOLYLINE =	APISH_ORTHPOLYLINE =	Available to define in
LYLINE	Can be defined in	Can be defined in	XDK
SH_SPLINELI	XDKSH_SPLINELINE =	XDKSH_SPLINELINE =	APISH_ORTHPOLYLINE =
NE	Freehand	Freehand	Can be defined in
SH_ORTHPO	lineSH_ORTHPOLYBOX =	lineSH_ORTHPOLYBOX =	XDKSH_SPLINELINE =
LYBOX	Available to define in XDK	Available to define in XDK	Freehand
SH_USER)	APINote: You cannot	APINote: You cannot	lineSH_ORTHPOLYBOX =
"SH_RECT"	specify PICTURE content	specify PICTURE content	Available to define in
	for a box if its SHAPE	for a box if its SHAPE	XDK APISH_USER =
	TOT & DOX II ItS STIALE	TOT U DON IT ITS STIMI E	VDK VII 1011 TOOPK =

Element type	Construct	Modify	Deconstruct
	attribute is set to SH_LINE.	attribute is set to SH_LINE.	Available to define in XDK API
PAGE CDATA #IMPLIED	Specifies the number of the page where the upper left corner of this box or line should be created. If the page number is followed by *, the box origin is on the left pasteboard. If the page number is followed by **, the box origin is on the right pasteboard.Note: This attribute determines where to create a box or line, regardless of which PAGE element the box or line occurs within.	Specifies the number of the page where the upper left corner of this box or line is located. If the page number is followed by *, the box origin is on the left pasteboard. If the page number is followed by **, the box origin is on the right pasteboard. Note: This attribute determines where a box or line is, regardless of which PAGE element the box or line occurs within.	Specifies the number of the page where the upper left corner of this box or line is located. If the page number is followed by *, the box origin is on the left pasteboard. If the page number is followed by **, the box origin is on the right pasteboard.Note: This attribute determines where a box or line is, regardless of which PAGE element the box or line occurs within.
ANGLE CDATA #IMPLIED	Specifies a rotation angle for a box or line as a floating-point value between –360 degrees and 360 degrees.	Specifies a rotation angle for a box or line as a floating-point value between –360 degrees and 360 degrees.	Specifies a rotation angle for a box or line as a floating-point value between –360 degrees and 360 degrees.
LAYER CDATA #IMPLIED	Identifies the layer where a box or line should be created.	Identifies the layer where a box or line is located.	Identifies the layer that a box resides on.Note: Boxes on non-displayed layers are not included. This means you can use the LAYER URL parameter as a filter when a layout contains multiple layers.
CORNERSTYL E (ROUNDED CONCAVE RECTANGLE BEVELED) #IMPLIED	Identifies the corner style (if any) applied to this box.	Identifies the corner style (if any) applied to this box.	Identifies the corner style (if any) applied to this box.
SKEW CDATA #IMPLIED	Specifies a skew value for the contents of this box or line as a floating-point value between –75 degrees and 75 degrees.	Specifies a skew value for the contents of this box or line as a floating-point value between –75 degrees and 75 degrees.	Specifies a skew value for the contents of this box or line as a floating-point value between –75 degrees and 75 degrees.

GRID (Modifier schema)

Element type	Construct	Modify	Deconstruct
GRID (GRIDLINE)	GRID element typeElement	Element used for specifying	Element used for

Element type	Construct	Modify	Deconstruct		
	used for specifying a grid in	a grid in a table.	specifying a grid in		
	a table.		a table.		
Attributes	Attributes				
TYPE (HGRID		Attribute used for selecting			
VGRID ALLGRID)	Not applicable.	a horizontal or vertical grid	Not applicable.		
#IMPLIED		(or both).			

GRIDLINE (Modifier schema)

El e m en t ty	Construct	Modify	Deconstruct
G RI D LI N E (e m pt	GRIDLINE element typeElement used to define line attributes.	Element used to define line attributes.	Element used to define line attributes.
ST YL E C D AT A #I M PL IE D	Identifies a Dashes & Stripes style (LINESTYLE) for a rule.Note: Only the name of a Dashes & Stripes style is included in this attribute. The definition of the Dashes & Stripes style is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server.	Identifies a Dashes & Stripes style (LINESTYLE) for a rule.Note: Only the name of a Dashes & Stripes style is included in this attribute. The definition of the Dashes & Stripes style is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server.	Identifies a Dashes & Stripes style (LINESTYLE) for a rule.Note: Only the name of a Dashes & Stripes style is included in this attribute. The definition of the Dashes & Stripes style is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server.
W ID T H C D AT A #I	Specifies the thickness of a line as a floating point value (measured in points).	Specifies the thickness of a line as a floating point value (measured in points).	Specifies the thickness of a line as a floating point value (measured in points).

El			
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m			
en	Construct	Modify	Deconstruct
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ty			
pe			
M			
PL			
IE			
D			
С			
0			
L			
0			
R			
1			
С			
D	Identifies the color of a line.	Identifies the color of a line.	Identifies the color of a line.
AT			
Α			
#I			
M			
PL			
IE			
D			
S			
Н			
A			
1			
D			
Е			
C	Specifies the shade of the color	Specifies the shade of the color	Specifies the shade of the color
D	applied to a line, as an integer	applied to a line, as an integer	applied to a line, as an integer
AT	percentage from 0 to 100.	percentage from 0 to 100.	percentage from 0 to 100.
Α	percentage from 0 to 100.	percentage from 0 to 100.	percentage from 0 to 100.
#I			
M			
PL			
IE			
D			
\vdash			
О			
PA			
CI			
TY			
С	Specifies the opacity of a line,	Specifies the opacity of a line,	Specifies the opacity of a line,
D	specified as an integer	specified as an integer	specified as an integer
AT	percentage from 0 to 100.	percentage from 0 to 100.	percentage from 0 to 100.
1	percentage from 0 to 100.	percentage from 0 to 100.	percentage from 0 to 100.
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en	Construct	Modify	Deconstruct
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pe IE			
D			
G			
AP			
C			
О			
L			
О			
R			
C	Identifies the color of a line	Identifies the color of a line	Identifies the color of a line
D	gap.	gap.	gap.
AT			
A			
#I			
M			
PL			
IE			
$ _{\rm D}$			
G			
AP			
S			
H			
A			
D			
Е	Specifies the shade of the color	Specifies the shade of the color	Specifies the shade of the color
С	applied to a line gap, as an	applied to a line gap, as an	applied to a line gap, as an
D	integer percentage from 0 to	integer percentage from 0 to	integer percentage from 0 to
AT	100.	100.	100.
A			
#I			
M			
PL			
IE			
D			
G			
AP			
О			
PA	Specifies the opacity of the gap	Specifies the opacity of the gap	Specifies the opacity of the gap
	color of a line, specified as an	color of a line, specified as an	color of a line, specified as an
CI	integer percentage from 0 to	integer percentage from 0 to	integer percentage from 0 to
TY	100.	100.	100.
С			
D			
AT			

El			
e			
m			
en	Construct	Modify	Deconstruct
t			
ty			
pe			
A			
#I			
M			
PL			
IE			
D			

GROUP (Modifier schema)

Element	Construct	Modify	Deconstruct
type	Construct	Mounty	Beconstruct
GROUP (ID,	GROUP element typeNot applicable.	Not applicable.	Describes a group of items.
N (CREATE DELETE) #IMPLIED	deletes the group in the layout.	Creates or deletes the group in the layout.	Not applicable.
ANCHORE DIN CDATA #IMPLIED	Not applicable.	Not applicable.	Indicates an anchored box in a text box and identifies its parent box.
ANCHORE DGROUPM EMBER CDATA #IMPLIED	Specifies that this group is a member of the indicated anchored group.	Specifies that this group is a member of the indicated anchored group.	Specifies that this group is a member of the indicated anchored group.
GROUPOP ACITY CDATA #IMPLIED	Specifies the opacity of the group as a whole.	Specifies the opacity of the group as a whole.	Specifies the opacity of the group as a whole.
ADDTOREF LOW (true false) #IMPLIED	Not applicable.	If true, adds this group (of text and/or picture boxes) to the project's reflow article. Equivalent to the Digital Publishing > Add to Reflow command in QuarkXPress.	Not applicable.
ARTICLEN	Not applicable.	Specifies the name of the project's reflow article	Not applicable.

Element type	Construct	Modify	Deconstruct
AME		(to which this group is being added as a	
CDATA	ATA component). If no reflow article exists and you do		
#IMPLIED	#IMPLIED not include this attribute, the default reflow		
		article name is used.	

GROUPCHARACTERS (Modifier schema)

Element type	Construct	Modify	Deconstruct
GROUPC HARACTE RS ((RICHTE XT HIDDEN) +)	Combines a series of characters into a unit always runs horizontally even if the story direction is vertical. Grouped characters do not break at the end of a line.	Combines a series of characters into a unit always runs horizontally even if the story direction is vertical. Grouped characters do not break at the end of a line.	Combines a series of characters into a unit always runs horizontally even if the story direction is vertical. Grouped characters do not break at the end of a line.
SCALEDI RECTION (HORIZO NTAL VERTICA L) #IMPLIE D	Specifies the direction in which text is scaled. Works only when the story direction is vertical.	Specifies the direction in which text is scaled. Works only when the story direction is vertical.	Specifies the direction in which text is scaled. Works only when the story direction is vertical.
SCALEAM OUNT CDATA #IMPLIE D	Specifies the scaling percentage. Works only when the story direction is vertical.	Specifies the scaling percentage. Works only when the story direction is vertical.	Specifies the scaling percentage. Works only when the story direction is vertical.
SENDING CDATA #IMPLIE D	Specifies the sending amount. (Sending is similar to kerning, but applicable as a fixed value over a range of text.)	Specifies the sending amount. (Sending is similar to kerning, but applicable as a fixed value over a range of text.)	Specifies the sending amount. (Sending is similar to kerning, but applicable as a fixed value over a range of text.)
TRACKA MOUNT CDATA #IMPLIE D	Specifies the amount of tracking applied to text, in 1/200ths of an em space.	Specifies the amount of tracking applied to text, in 1/200ths of an em space.	Specifies the amount of tracking applied to text, in 1/200ths of an em space.

GROWACROSS (Modifier schema)

Element type	Construct	Modify	Deco nstru ct
L(#PCDATA	GROWACROSS element typeNot applicable.	Expands a box horizontally to the right by the specified number of points.Note: A box can be expanded on the same page or on other spreads and pages.	Not appli cable

GROWDOWN (Modifier schema)

Element type	Construct	Modify	Deco nstru ct
GROWD OWN (#PCDAT	typeNot	Expands a box vertically toward the bottom of the page by the specified number of points.Note: A box can be expanded on the same page or on other spreads and pages.	Not appli cable
A)	applicable.	t0k hgen	

HEADER (Modifier schema)

Element type	Construct	Modify	Deconstruct		
HEADER (ROW*,	HEADER element typeSpecifies	Specifies if the row is	Indicates if the row		
ICONTINUEDHEADE	/ · · ·	*	is to be a header row.		
R)	in the low is to be a header low.	to be a fleader fow.	is to be a fleatier fow.		
Attributes	Attributes				
HEADERROWS	Specifies number of header row.	Specifies number of	Specifies number of		
CDATA #IMPLIED	specifies number of fleader row.	header row.	header row.		

HEADTROWSTYLE (Modifier schema)

Element type	Construct	Modify	Deco nstruc t
HEADTROWSTYLE (TOPGRID?, BOTTOMGRID?)	HEADTROWSTYLE element typeDefines a style for header rows in an <inlinetable>.</inlinetable>	Defines a style for header rows in an <inlinetable>.</inlinetable>	Not applic able.
Attributes		•	•
PARASTYLE CDATA #IMPLIED	Identifies the paragraph style sheet for the row style.	Identifies the paragraph style sheet for the row style.	Not applic able.
ALIGNMENT (LEFT RIGHT CENTER JUSTIFIED FORCED) #IMPLIED	Identifies the paragraph alignment for the row style.	Identifies the paragraph alignment for the row style.	Not applic able.
ANGLE CDATA #IMPLIED	Identifies the text angle for the row style.	Identifies the text angle for the row	Not applic

Element type	Construct	Modify	Deco nstruc t
		style.	able.
VALIGN (TOP CENTER BOTTOM) #IMPLIED	Specifies the vertical alignment of the row style.	Specifies the vertical alignment of the row style.	Not applic able.
COLOR CDATA #IMPLIED	Specifies the background color of the row style.	Specifies the background color of the row style.	Not applic able.
SHADE CDATA #IMPLIED	Specifies the background shade of the row style.	Specifies the background shade of the row style.	Not applic able.
INSET CDATA #IMPLIED	Specifies the text inset of the row style.	Specifies the text inset of the row style.	Not applic able.

HEIGHT(Modifier schema)

Element type	Construct	Modify	Deconstruct
HEIGHT	HEIGHT element typeIndicates the	Indicates the height	Indicates the height
(#PCDATA)	height of an item.	of an item.	of an item.

HIDDEN (Modifier schema)

→ For more information, see "Working with hidden text."

Ele me			
nt	Construct	Modify	Deconstruct
typ e			
HI DD EN (RI CH TE XT)	HIDDEN element typeGiven the OPCODE and OWNER, this will specify hidden text within the project.	Given the OPCODE and OWNER, this will specify hidden text within the project.	Given the OPCODE and OWNER, this will specify hidden text within the project.
Attri	butes		
DA TAL EN CD ATA #IM PLI	Not applicable.	Not applicable.	Number of characters the hidden text spans. Note that if the DATALEN attribute does not match the length of the hidden data provided as a RICHTEXT child of HIDDEN, then the text in subsequent RICHTEXT elements will be included within the

Ele			
me			
nt	Construct	Modify	Deconstruct
	Construct	Wiodify	Deconstruct
typ			
е			hidden text created in QuarkXPress,
			up to the length specified for
			DATALEN. This can result in data
ED			intended for the page being included
			in the hidden text data, and
			therefore being hidden from view in
			QuarkXPress and in output. It is
			critical to ensure that the length of
			data intended as hidden text
			matches the value of the DATALEN
			attribute to avoid data loss.
	Hidden text opcode is a	Hidden text opcode is a	
	four-byte field that	four-byte field that	
	contains ownerId,	contains ownerId,	
	opcodeId,and	opcodeId,and	
	hiddenTextType. The	hiddenTextType. The	
	Hidden text opcode is	Hidden text opcode is	
OP	usually the originating	usually the originating	
CO	XTensions ID of the	XTensions ID of the	Hidden text opcode is a four-byte
DE	XTensions that owns this	XTensions that owns this	field that contains ownerId,
CD	hidden text. Note that you	hidden text. Note that you	opcodeId,and hiddenTextType. The
ATA	MUST be certain that the	MUST be certain that the	Hidden text opcode is usually the
#RE	handling XTensions will	handling XTensions will	originating XTensions ID of the
QU	correctly understand the	correctly understand the	XTensions that owns this hidden
IRE	data being passed, and	data being passed, and	text.
D	handle any errors.	handle any errors.	
	XTensions that are not	XTensions that are not	
	designed to handle	designed to handle	
	inappropriate data may	inappropriate data may	
	cause QuarkXPress Server	cause QuarkXPress Server	
	to unexpectedly quit.	to unexpectedly quit.	
OW	to unexpectedly quit.	to arrespectedly quit.	
NE			
R	Represents the XTensions	Represents the XTensions	
CD	ID of the XTensions	ID of the XTensions	
1	software that owns this	software that owns this	
1	hidden text.	hidden text.	
PLI	inducti text.	inducti text.	
ED			
_			
TYP			
Е			
(OP	The type of hidden text, as	The type of hidden text, as	The type of hidden text, as described
EN	described in the XDK.	described in the XDK.	in the XDK.
PAR			
EN			
		<u>I</u>	<u>. </u>

Ele			
me			
nt	Construct	Modify	Deconstruct
typ			
e			
CL			
OSE			
PAR			
EN			
NO			
NP			
ARE			
N			
СН			
AR			
AC			
TER			
TYP			
E)			
#IM			
PLI			
ED			

HYPERLINK (Modifier schema)

Element type	Construct	Modi fy	Deconstruct
HYPERLINK (empty) Attributes	HYPERLINK element typeNot applicable.	Not appli cable	Defines a hyperlink.
NAME CDATA #IMPLIED	Not applicable.	Not appli cable	The name of the hyperlink.
TARGET CDATA #REQUIRED	Not applicable.	Not appli cable	The name of the hyperlink target.
HLTYPE (WWWURL PAGE ANCHOR) #REQUIRED	Not applicable.	Not appli cable	Specifies the type of hyperlink. Options include WWWURL (a URL on the Web), PAGE (the top of a page in the same layout), and ANCHOR (an anchor).

ID (Modifier schema)

El e m en t ty pe	ID element typeLets you specify a name for a LAYOUT, LAYER, BOX, LINKEDBOX, TABLE, GROUP, or COMPOSITIONZONE.Lets you specify a unique ID for a SPREAD or PAGE.	Modify Identifies an object by its UID or NAME.Note: QuarkXPress Server evaluates the ID element for a NAME value first and for a UID second. If a NAME is found, the UID is	Identifies an object by its unique ID and by its name (if any). If a NAME value exists, the NAME displays in the content of the ID element: <id box="" name="Name" of="" uid="456">Name of box</id> If a NAME value does not exist, the UID displays in the content of the ID element: <id uid="457">457</id> Note: If a NAME value does not exist, the UID displays in the content of the ID element: <id uid="457">457</id> Note: If a NAME value does not exist for a box, the word Box and the box UID are concatenated and display in the XML.
		ignored.	. ,
Att	ributes	<u> </u>	
N A M E C D A T A #I M PL IE	The name of the parent element. The NAME is assigned to QuarkXPress elements during document construction. For example, NAME="BOX1" would be assigned to a box after it has been constructed.Required for LAYOUT, LAYER, BOX, TABLE, GROUP, and COMPOSITIONZONE elements. QuarkXPress Server automatically assigns a UID to such elements.Ignored for spreads and pages.	The name of the LAYOUT, LAYER, SPREAD, BOX, TABLE, GROUP, or element to be modified.	The name of the parent element.
UI D C D A T A #I M	Required for PAGE and SPREAD elements. Ignored for all other element types.	The unique ID of the element to be modified.	Specifies the unique ID of an element in the QuarkXPress project.

El			
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en	Construct	Modify	Deconstruct
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INDEXTERM (Modifier schema)

Element type	Construct	Modify	Dec onst ruct
INDEXTERM (RICHTEXT)	INDEXTERM element typeLets you mark indexes within the flow.	Lets you mark indexes within the flow.	Not appli cabl e.
Attributes	!		
RANGE (UNTILPARASTYLE NUMBEROFPARAGRAPHS ENDOFSTORY START)	Specifies the beginning and end of the scope of the occurrence of the index within the flow.	Specifies the beginning and end of the scope of the occurrence of the index within the flow.	Not appli cabl e.
ADDALL (true false) #IMPLIED	Specifies that all instances of the index term in the document should be added to the index.	Specifies that all instances of the index term in the document should be added to the index.	Not appli cabl e.
MAINTERM CDATA #IMPLIED	Specifies the level of the index term.	Specifies the level of the index term.	Not appli cabl e.
SUBTERM1 CDATA #IMPLIED	Specifies the level of the index term.	Specifies the level of the index term.	Not appli cabl e.
SUBTERM2 CDATA #IMPLIED	Specifies the level of the index term.	Specifies the level of the index term.	Not appli cabl e.
SUBTERM3 CDATA #IMPLIED	Specifies the level of the index term.	Specifies the level of the index term.	Not appli cabl e.
CROSSREFERENCETOINDE X CDATA #IMPLIED	Creates a cross references between index terms.	Creates a cross references between index terms.	Not appli cabl e.

INLINEBOX (Modifier schema)

Element type	Construct	Modify	Deconst ruct
INLINEBOX (BOXATTRIB UTE?, FRAME?, RUNAROUN D?, SHADOW?, TEXTATTRIB UTE?, PICTURE?, (CONTENT? (PARAGRAPH RICHTEXT)*) , INTERACTIV ITY?)	INLINEBOX element typeLets you create an anchored text or picture box inline rather than referencing it.	Lets you create an anchore d text or picture box inline rather than referenc ing it.	Not applica ble.
Attributes		Specifie	
WIDTH CDATA #IMPLIED	Specifies the width of the box as a percentage of the width of the parent column or text box, in all supported measurement units. The default WIDTH value is 100%. The default height for a picture box is the height of the picture it contains at a scale of 100% (or after SCALEUP is applied, if specified). The default width is the width of the picture at that scale. If SCALEUP="false" and the picture is too big to fit the WIDTH value, the picture is scaled down until it fits. The height of a text box is determined by the amount of content it contains after text-fitting (if any).	s the width of the box as a percent age of the width of the parent column or text box, in all support ed measur ement units. The default WIDTH value is 100%.T he default height	Not applica ble.

Element type	Construct	Modify	Deconst
		for a	ruct
		picture	
		box is	
		the	
		height	
		of the	
		picture	
		it	
		contain	
		s at a	
		scale of	
		100%	
		(or after	
		SCALE	
		UP is	
		applied,	
		if	
		specifie	
		d). The	
		default	
		width is	
		the	
		width	
		of the	
		picture	
		at that	
		scale. If	
		SCALE	
		UP="fal	
		se" and	
		the	
		picture	
		is too	
		big to	
		fit the	
		WIDTH	
		value,	
		the	
		picture	
		is scaled	
		down	
		until it	
		fits. The	
		height	
		of a	
		text	
		box is	
		determi	

Element type	Construct	Modify	Deconst ruct
		ned by	
		the	
		amount	
		of	
		content	
		it	
		contain	
		s after	
		text-	
		fitting	
		(if any).	
		Applica	
		ble only	
		if you	
		are	
		insertin	
		g a	
		picture	
		into the	
		box,	
		and	
		only if	
		the	
		picture	
		is	
		narrowe	
	Applicable only if you are inserting a picture into the box, and	r in	
SCALEUP	only if the picture is narrower in width than the box. If	width	Not
CDATA (true	SCALEUP="true", the picture is sized up to fill the full width of	than the	Not
false)	the box. If SCALEUP="false", the picture is not resized. In both	box. If	applica ble.
#IMPLIED	cases, the height of the box is adjusted to match the height of the	SCALE	Die.
	picture.	UP="tru	
		e", the	
		picture	
		is sized	
		up to	
		fill the	
		full	
		width	
		of the	
		box. If	
		SCALE	
		UP="fal	
		se", the	
		picture	
		is not	
		resized.	

Element type	Construct	Modify	Deconst ruct
		In both	
		cases,	
		the	
		height	
		of the	
		box is	
		adjuste	
		d to	
		match	
		the	
		height	
		of the	
		picture.	
		Specifie	
		s whethe	
		r the	
		anchore	
		l	
AT TON WATER		d box is	
ALIGNWITH		aligned	NT 4
TEXT	Specifies whether the anchored box is aligned with the ascent or the baseline of the line in which it occurs.	with	Not
(ASCENT		the	applica
BASELINE)		ascent	ble.
"BASELINE"		or the	
		baseline	
		of the	
		line in	
		which	
		it	
		occurs.	
		Specifie	
		s the	
		offset of	
		the	
OFFSET		anchore	Not
CDATA	Specifies the offset of the anchored box from the ascent or	d box	applica
#IMPLIED	baseline.	from	ble.
#IMPLIED		the	bie.
		ascent	
		or	
		baseline	
	Specifies the pre-defined item style to be applied to the inline	Specifie	
	box.	s the	
	→ TV 1	pre-	Not
ITEMSTYLE	To learn more about Item Style functionality in	defined	applica
	QuarkXPress 2017, refer to the "Item Styles"	item	ble.
	section of the <i>QuarkXPress 2017 User Guide</i> found	style to	
	here:	style to	

Element type	Construct		Deconst ruct
	http://files.quark.com/download/documentation/Qua	be	
	rkXPress/2017/English/QXP-2017-User-Guide-	applied	
	EN.pdf. The newly introduced Modifier XML	to the	
	markup maps/corresponds to the QuarkXPress	inline	
	2017 functionality.	box.	

INLINETABLE (Modifier schema)

Element type	Construct	Modify	De co nst ruc t
INLINETABLE (FRAME?, COLGROUP?, THEAD?, TBODY,TFOOT?,SHAD OW RUNAROUND)	INLINETABLE element typeDescribes a table that is anchored in a text box.	Describes a table that is anchored in a text box.	No t ap pli cab le.
Attributes			NI-
WIDTH CDATA #IMPLIED	Specifies the width of the table, in all supported measurement units. Can be specified as a percentage of the width of the parent text box.	Specifies the width of the table, in all supported measurement units. Can be specified as a percentage of the width of the parent text box.	No t ap pli cab le.
SPAN CDATA #IMPLIED	Specifies how much of the page the table will span. (PAGEWIDTH, ALLCOLUMNS, or any number of columns.).	Specifies how much of the page the table will span. (PAGEWIDTH, ALLCOLUMNS, or any number of columns.).	No t ap pli cab le.
TABLESTYLEREF CDATA #IMPLIED	Identifies the <tablestyle> that should be used to style the table.</tablestyle>	Identifies the <tablestyle> that should be used to style the table.</tablestyle>	No t ap pli cab le.
ORIENTATION (LANDSCAPE PORTRAIT) #IMPLIED	Specifies the orientation of the table.	Specifies the orientation of the table.	No t ap pli cab le.

INS (Modifier schema)

Element type	Construct	Modify	Deconstruct
INS (empty)	INS element typeDescribes the beginning or end of a tracked insertion in text.	Describes the beginning or end of a tracked insertion in text.	Describes the beginning or end of a tracked insertion in text.
CREATED BY CDATA #IMPLIED	Not applicable.	Not applicable.	The username of the creator of the insertion.
CREATED ON CDATA #IMPLIED	Not applicable.	Not applicable.	The creation date of the insertion.
STATUS (BEGIN END) #IMPLIED	If BEGIN, this is the beginning of an insertion. If END, this is the end of an insertion.	If BEGIN, this is the beginning of an insertion. If END, this is the end of an insertion.	If BEGIN, this is the beginning of an insertion. If END, this is the end of an insertion.

INSET (Modifier schema)

Element type	Construct	Modify	Deconstruct
INSET (empty)	INSET element typeSpecifies the distance between the inside border of a text box and the text.	Specifies the distance between the inside border of a text box and the text.	Indicates the distance between the inside border of a text box and the text.
Attributes			
MULTIPLEIN SETS (true false none) "none"	Specifies multiple insets.	Specifies multiple insets.	Indicates multiple insets.
	Specifies the distance	Specifies the distance	Indicates the distance
TOP CDATA	between the top inside	between the top inside	between the top inside
#IMPLIED	border of a text box and the	border of a text box and	border of a text box and
	text.	the text.	the text.
BOTTOM CDATA #IMPLIED	Specifies the distance between the bottom inside border of a text box and the text.	Specifies the distance between the bottom inside border of a text box and the text.	Indicates the distance between the bottom inside border of a text box and the text.
RIGHT CDATA #IMPLIED	Specifies the distance between the right inside border of a text box and the text.	Specifies the distance between the right inside border of a text box and the text.	Indicates the distance between the right inside border of a text box and the text.
LEFT CDATA #IMPLIED	Specifies the distance between the right inside border of a text box and the text.	Specifies the distance between the right inside border of a text box and the text.	Indicates the distance between the right inside border of a text box and the text.
ALLEDGES	Specifies the distance	Specifies the distance	Indicates the distance

Element type	Construct	Modify	Deconstruct
CDATA	between the inside border of	between the inside border	between the inside border
#IMPLIED	all sides of a text box and the	of all sides of a text box	of all sides of a text box
	text.	and the text.	and the text.

INTERACTIVITY (Modifier schema)

Note that the content of an <INTERACTIVITY> element is defined by the XTensions module that owns it. Consequently, no schema for that content is presented here.

Element type	Construct	Modify	Deconstruct
INTERACTI	INTERACTIVITY element	Describes AVE	Describes AVE
VITY	typeDescribes AVE interactivity	interactivity added to an	interactivity added to an
(DATAPRO	added to an App Studio layout or	App Studio layout or	App Studio layout or
VIDER?)	Print layout.	Print layout.	Print layout.
Attributes			
OWNERXT	Identifies the XTensions module	Identifies the XTensions	Identifies the XTensions
ID CDATA	that enables this type of	module that enables	module that enables
#IMPLIED	interactivity.	this type of interactivity.	this type of interactivity.
TYPE		Identifies the type of	Identifies the type of
CDATA	Identifies the type of interactivity.	, · ·	/ ·
#IMPLIED		interactivity.	interactivity.

ISBN (Modifier schema)

Element type	Construct	Modify	Deconstruct
ISBN	ISBN element	Part of the <ebookmetadata> element.</ebookmetadata>	Specifies the ISDN
(#PCDAT	tvpeNot		Specifies the ISBN code of an e-book.
A)	applicable.	specifies the ison code of all e-book.	code of all e-book.

KEEPLINESTOGETHER (Modifier schema)

Elemen t type	Construct	Modify	Deconstruct
KEEPLI NESTO GETHE R (empty)	KEEPLINESTOGETHER element typeThe Keep Lines Together feature specifies whether lines in paragraphs flow together or are separated when they reach the bottoms of columns.	The Keep Lines Together feature specifies whether lines in paragraphs flow together or are separated when they reach the bottoms of columns.	The Keep Lines Together feature specifies whether lines in paragraphs flow together or are separated when they reach the bottoms of columns.
Attribute	es .		
ENABL ED (true false	Specifies whether or not this feature is enabled.	Specifies whether or not this feature is enabled.	Specifies whether or not this feature is enabled.

Elemen t type	Construct	Modify	Deconstruct
none) "none"			
ALLLIN ESINPA RA (true false none) "none"	Specifies whether this is for all lines in the paragraph or has a specific start and end.	Specifies whether this is for all lines in the paragraph or has a specific start and end.	Specifies whether this is for all lines in the paragraph or has a specific start and end.
STARTL INE CDATA #IMPLI ED	Specifies the number of lines at the beginning of a paragraph before wrapping text to keep lines together.		Specifies the number of lines at the beginning of a paragraph before wrapping text to keep lines together.
ENDLI NE CDATA #IMPLI ED	Specifies the number of lines at the end of a paragraph before wrapping text to keep lines together.		Specifies the number of lines at the end of a paragraph before wrapping text to keep lines together.

KEYWORDS (Modifier schema)

Element type	Construct	Modify	Deconstruct
KEYWOR DS (#PCDATA)	KEYWORDS element typeNot applicable.		Specifies a list of keywords for an ebook.

LASTTCOLSTYLE (Modifier schema)

Element type	Construct	Modify	Decon struct
LASTTCOLSTYLE (LEFTGRID?, RIGHTGRID?) Attributes	LASTTCOLSTYLE element typeDefines a style for the last column in an <inlinetable>.</inlinetable>	Defines a style for the last column in an <inlinetable>.</inlinetable>	Not applic able.
WIDTH CDATA #IMPLIED	Specifies the width of the column style.	Specifies the width of the column style.	Not applic able.
COLOR CDATA #IMPLIED	Specifies the background color of the column style.	Specifies the background color of the column style.	Not applic able.
SHADE CDATA #IMPLIED	Specifies the background shade of the column style.	Specifies the background shade of the column style.	Not applic able.

LAYER (Modifier schema)

Elem			
ent	Construct	Modify	Deconstruct
type			
LAYE			
R			
(ID,	LAYER element typeDescribes		
RGB	a layer.	Describes a layer.	Describes a layer.
COL	a layel.		
OR)			
Attribu	1100		
OPER	ites		
ATIO			
1		S	
N		Specifies whether to create or	
(CRE		delete the indicated layer.	
ATE	Not applicable.	Note that when you delete a	Not applicable.
DELE		layer, all items on the layer	
TE)		are deleted.	
#IMP			
LIED			
VISIB			
LE	Specifies whether a layer is	Specifies whether a layer is	Specifies whether a layer
(true	visible.Note: In QuarkXPress,	visible.Note: In QuarkXPress,	should be visible.Note: In
false	this parameter overrides the	this parameter overrides the	QuarkXPress, this parameter
lı l	Visible setting in the Layers	Visible setting in the Layers	overrides the Visible setting
none	pane of the Preferences dialog	pane of the Preferences dialog	in the Layers pane of the
)	box (QuarkXPress/Edit	box (QuarkXPress/Edit	Preferences dialog box
"non	menu).	menu).	(QuarkXPress/Edit menu).
e"			
KEEP			
RUN	Specifies whether text on	Specifies whether text on	Specifies whether text on
ARO	visible layers runs around text	visible layers runs around text	
1	on hidden layers.Note: In	on hidden layers.Note: In	on hidden layers.Note: In
(true	QuarkXPress, this parameter	QuarkXPress, this parameter	QuarkXPress, this parameter
1 `	overrides the Keep	overrides the Keep	overrides the Keep
	Runaround setting in the	Runaround setting in the	Runaround setting in the
none	ŭ	Layers pane of the Preferences	l
110116	dialog box (QuarkXPress/Edit	dialog box (QuarkXPress/Edit	dialog box (QuarkXPress/Edit
"non	9	_	_
e"	menu).	menu).	menu).
$\overline{}$			
LOC	Consider what have a large to	Consider what are a 1	Consider with the same to the same
KED	Specifies whether a layer is	Specifies whether a layer is	Specifies whether a layer is
(true	locked.Note: In QuarkXPress,	locked.Note: In QuarkXPress,	locked.Note: In QuarkXPress,
talse	this parameter overrides the	this parameter overrides the	this parameter overrides the
[]	Locked setting in the Layers	Locked setting in the Layers	Locked setting in the Layers
none	pane of the Preferences dialog	pane of the Preferences dialog	pane of the Preferences dialog
)	box (QuarkXPress/Edit	box (QuarkXPress/Edit	box (QuarkXPress/Edit
	menu).	menu).	menu).
e"			

Elem ent type	Construct	Modify	Deconstruct
SUPP			
RESS	Specifies whether output of a	Specifies whether output of a	Specifies whether output of a
(true	layer is suppressed.Note: In	layer is suppressed.Note: In	layer is suppressed.Note: In
false	QuarkXPress, this parameter	QuarkXPress, this parameter	QuarkXPress, this parameter
	overrides the Suppress Output	overrides the Suppress Output	overrides the Suppress Output
none	setting in the Layers pane of	setting in the Layers pane of	setting in the Layers pane of
)	the Preferences dialog box	the Preferences dialog box	the Preferences dialog box
"non	(QuarkXPress/Edit menu).	(QuarkXPress/Edit menu).	(QuarkXPress/Edit menu).
e"			

LAYOUT (Modifier schema)

Element type	Construct	Modify	Deconstruct
LAYOUT (ID, ARTICLE*, LAYER*, EBOOKMETA DATA?, HYPERLINK*, (SPREAD BOX TABLE INLINETABLE INLINEBOX MASTERPAGE SEQUENCE PAGESEQUEN CE)*)	LAYOUT element typeDescribes a layout in a project.	Identifies a layout to be modified. Use the ID@NAME or ID@UID attribute to indicate the target layout. Layout numbers start with 1; layout=1 refers to the first layout in the project.If you want to modify existing boxes, regardless of where the boxes appear in the project, boxes to modify can be specified as direct children of the LAYOUT element, rather than being enclosed within a specific SPREAD.	Specifies the layout number in the ID@UID element and the layout name in the ID@NAME element.
Attributes			
POINTSPERIN CH CDATA #IMPLIED	Not applicable.	Not applicable.	Specifies how many points to use per inch for measurements.
MATHSUPERS ET CDATA #IMPLIED	Identifies the XPressMath superset (if any) used by this project.	Identifies the XPressMath superset (if any) used by this project.	Identifies the XPressMath superset (if any) used by this project.
MEDIATYPE (PRINT DIGITAL) #IMPLIED	Not applicable.	Not applicable.	Specifies whether the layout is a Print or App Studio layout.
SHAREDSTAT US (LAYOUT ALLPROJECTS THISPROJECT) #IMPLIED	Not applicable.	Not applicable.	Specifies the sharing status of the layout, as specified in the Layout > Advanced Layout Properties dialog box in QuarkXPress.

Element type	Construct	Modify	Deconstruct
REFLOWVIEW		-	Specifies the UID of the Print
LAYOUTUID	Not	Not applicable	layout for this Reflow layout.
CDATA	applicable.	Not applicable.	This attribute is valid only for
#IMPLIED			reflow views for Print layouts.
LAYOUTHIDD			
EN (true	Not	N. 1. 1.	If true, the layout is hidden.
false)	applicable.	Not applicable.	If false, the layout is visible.
#IMPLIED			
REFLOWVIEW			16. 11.1 5.0
LAYOUT (true	Not		If true, this layout is a Reflow
false)	applicable.	Not applicable.	layout. If false, this layout is
#IMPLIED			not a Reflow layout.
LAYOUT_ID CDATA #IMPLIED	Not applicable.	Not applicable.	Specifies the internal layout UID value for the layout. This value does not change when the project gets modified — unlike the UID value, which is reset when, for example, an intermediate layout is deleted. Note that the LAYOUT/ID@UID attribute represents the index of the layout, rather than the internal UID used by QuarkXPress.
OPERATION	Allows you to		
(CREATE	create or	Allows you to create or delete a	
DELETE)	delete a	layout.	Not applicable.
#IMPLIED	layout.		
LAYOUTSPECI FICATION CDATA #IMPLIED	Lets you specify a specification to be used when you create a layout with the OPERATION attribute.	Lets you specify a specification to be used when you create a layout with the OPERATION attribute.	Not applicable.
WIDTH CDATA #IMPLIED	Valid only when you are creating a layout with the OPERATION attribute and you are not using a layout specification. Lets you	Valid only when you are creating a layout with the OPERATION attribute and you are not using a layout specification. Lets you specify the width of the layout.	Not applicable.

Element type	Construct	Modify	Deconstruct
	specify the width of the		
	layout.		
	Valid only		
	when you are		
	creating a		
	layout with		
	the	Valid only when you are creating a	
HEIGHT	OPERATION	layout with the OPERATION	
CDATA	attribute and	attribute and you are not using a	Not applicable.
#IMPLIED	you are not	layout specification. Lets you	
	using a layout	specify the height of the layout.	
	specification.		
	Lets you specify the		
	height of the		
	layout.		
	Creates a		
	duplicate of		
	the layout		
	with this		
	name. For	Creates a duplicate of the layout	
DI IDI IO ATEED	example: <lay< td=""><td>with this name. For</td><td></td></lay<>	with this name. For	
DUPLICATEFR OMLAYOUT	OUT	example: <layout< td=""><td></td></layout<>	
CDATA	OPERATION="	OPERATION="CREATE"	Not applicable.
#IMPLIED	CREATE"	DUPLICATEFROMLAYOUT=	
HIMPLIED	DUPLICATEFR	"Layout 1"> <id name="new"></id>	
	OMLAYOUT=		
	"Layout 1">		
	<id< td=""><td></td><td></td></id<>		
	NAME="new"/		
	>		

LAYOUTREF (Modifier schema)

Element type	Construct	Modify	Deconstruct
	LAYOUTREF	Not	Identifies a layout that is a member of a
LAYOUTREF (ID)	element typeNot	applica	layout family (a
	applicable.	ble.	PUBLICATIONCHANNEL).
Attributes		•	
ORIENTATION		Not	
(HORIZONTAL	Not applicable.	applica	Identifies the orientation of the layout.
VERTICAL) #IMPLIED		ble.	

LEFT (Modifier schema)

Ele men t type	Construct	Modify	Deconstruct
LEFT	LEFT element typeThe distance	The distance between the	The distance between the
(#PC	between the box or lines left edge	box or lines left edge and	box or lines left edge and
DAT	and the left edge of the page, in	the left edge of the page, in	the left edge of the page, in
A)	points.	points.	points.

LEFTCONTROLPOINT (Modifier schema)

El e m en t ty pe	Construct	Modify	Deconstruct
EE FT C O N T R O LP OI N T (e m pt y)	LEFTCONTROLPOINT element typeEach point on a curve is described by three geometric positions: the x,y coordinate of the vertex point (this coordinate is relative to the bounding geometry of the shape, not the page), and the left and right control handles—as you would see onscreen in the QuarkXPress user environment. For more information on drawing and manipulating bezier curves, please see A Guide to QuarkXPress.	Each point on a curve is described by three geometric positions: the x,y coordinate of the vertex point (this coordinate is relative to the bounding geometry of the shape, not the page), and the left and right control handles—as you would see onscreen in the QuarkXPress user environment. For more information on drawing and manipulating bezier curves, please see A Guide to QuarkXPress.	Each point on a curve is described by three geometric positions: the x,y coordinate of the vertex point (this coordinate is relative to the bounding geometry of the shape, not the page), and the left and right control handles—as you would see onscreen in the QuarkXPress user environment. For more information on drawing and manipulating bezier curves, please see A Guide to QuarkXPress.

LEFTGRID (Modifier schema)

Elemen t type	Construct	Modify	D ec o ns tr uc t
1	LEFTGRID element typeDescribes a grid line on the left edge of a cell in an	Describes a grid line on the left edge of a cell in an <inlinetable>.</inlinetable>	N ot

			D	
			ec	
			О	
Elemen	Construct	Modify	ns	
t type	Construct	lylouny		
			tr	
			uc	
			t	
			ар	
(empty)	<inlinetable>.</inlinetable>		pli	
1 //			I - I	
			ca	
			bl	
			e.	
Attribute	es .			
TYPE			П	
			N	
(TOP			ot	
LEFT			ар	
ВОТТО	Specifies the location of the grid line.	Specifies the location of the grid line.	1 1	
M	specifies the location of the grid line.	specifies the location of the grid line.	pli	
RIGHT)			ca	
#IMPLI			bl	
			e.	
ED			Ш	
	Identifies the <tablestyle> that styles</tablestyle>	Identifies the <tablestyle> that styles</tablestyle>	N	
STYLE	•	·	ot	
	this grid line. If you specify this value, you	this grid line. If you specify this value, you	ap	
CDATA	do not have to specify the remaining	do not have to specify the remaining	pli	
#IMPLI	attributes. If you specify the remaining	attributes. If you specify the remaining	1 1	
ED	attributes, those attribute values override	attributes, those attribute values override	ca	
	the corresponding <tablestyle> values.</tablestyle>	the corresponding <tablestyle> values.</tablestyle>	bl	
	1 0	1 0	e.	
			N	
			ot	
WIDTH			ар	
CDATA	Specifies the width of the grid line in	Specifies the width of the grid line in	pli	
#IMPLI	points.	points		
ED		F		
			bl	
			e.	
			N	
			ot	
COLOR			1 1	
CDATA			ap	
#IMPLI	Specifies the color of the grid line.	Specifies the color of the grid line.	pli	
ED			ca	
			bl	
			e.	
			N.	
			1.1	
SHADE			ot	
CDATA			ap	
	Specifies the shade of the grid line.	Specifies the shade of the grid line.	pli	
#IMPLI				
ED			ca bl	
			1 1	
			e.	
OPACIT	Specifies the opacity of the grid line.	Specifies the opacity of the grid line.	N	
I		1 ' ' '	1	

			Б
			D
			ec
Elemen		26.116	0
t type	Construct	Modify	ns
71			tr
			uc
			t
Υ			ot
CDATA			ap
#IMPLI			pli
ED			ca
			bl
			e.
			N
GAPCO			ot
LOR	Specifies the color of the gap (if any)	Specifies the color of the gap (if any)	ap
1	between the lines that make up the grid	between the lines that make up the grid	pli
#IMPLI	line.	line.	ca
ED			bl
			e.
			N
GAPSH			ot
ADE	Specifies the shade of the gap (if any)	Specifies the shade of the gap (if any)	ap
CDATA	between the lines that make up the grid	between the lines that make up the grid	pli
#IMPLI	line.	line.	ca
ED			bl
			e.
			N
GAPOP			ot
ACITY	Specifies the opacity of the gap (if any)	Specifies the opacity of the gap (if any)	ap
CDATA	between the lines that make up the grid	between the lines that make up the grid	pli
#IMPLI	line.	line.	ca
ED			bl
			e.

LINESTYLE (Modifier schema)

Element type	Construct	Modify	Deconstruct
LINESTYL E (empty)	LINESTYLE element typeDescribes a Dashes & Stripes style that can be applied to lines or frames.	Describes a Dashes & Stripes style that can be applied to lines or frames.	Describes a Dashes & Stripes style that can be applied to lines or frames.
Attributes			
ARROWH EADS (PLAINLI NE LEFTARR	Specifies whether a line should have arrows on its ends:PLAINLINE = No arrows LEFTARROW = Arrow head on left	Specifies whether a line should have arrows on its ends:PLAINLINE = No arrows LEFTARROW = Arrow head on left	Specifies whether a line has arrows on its ends:PLAINLINE = No arrowsLEFTARROW = Arrow head on left

Element type	Construct	Modify	Deconstruct
OW	endRIGHTARROW = Arrow	endRIGHTARROW = Arrow	endRIGHTARROW = Arrow
RIGHTAR	head on right	head on right	head on right
ROW	endLEFTFARROW = Arrow	endLEFTFARROW = Arrow	endLEFTFARROW = Arrow
LEFTFARR	head on left end, arrow tail	head on left end, arrow tail	head on left end, arrow tail
OW	on right endRIGHTFARROW	on right endRIGHTFARROW	on right
RIGHTFA	= Arrow head on right end,	= Arrow head on right end,	endRIGHTFARROW =
RROW	arrow tail on left	arrow tail on left	Arrow head on right end,
DOUBLE	endDOUBLEARROW =	endDOUBLEARROW =	arrow tail on left
ARROW)	Arrow heads on both ends	Arrow heads on both ends	endDOUBLEARROW =
"PLAINLI			Arrow heads on both ends
NE"			

LINKEDBOX (Modifier schema)

Element type	Construct	Modify	Deconstruct
LINKEDBOX (ID)	LINKEDBOX element typeRepresents a box or table cell into which text flows from the parent box. The child ID element identifies the box or table. To force text to run into the next box or cell in a chain, insert the boxbreak character entity where you want the text to break.	Represents a box or table cell into which text flows from the parent box. The child ID element identifies the box or table. To force text to run into the next box or cell in a chain, insert the boxbreak character entity where you want the text to break.	Identifies the point where the text has overflowed the current box and identifies the box or table cell where the text continues. Example: <box> <id name="Box5" uid="5"></id> <text> <story storydirection="H ORIZONTAL"> <linkedbox endoffset="94" startoffset="55"> <id name="Box6" uid="6"></id> </linkedbox> <linkedbox> <linkedbox endoffset="108" startoffset="95"> <id name="Box7" uid="7"></id> </linkedbox> <id name="Box7" uid="7"></id> </linkedbox> <id name="Box7" uid="7"></id> <id name="Box7" uid="7"></id> <paragraph merge="false" parastyle="Normal"> <richtext merge="false"> Text is here.</richtext> </paragraph> </story></text></box>

Element type	Construct	Modify	Deconstruct
Attributes			
STARTOFFSET CDATA			Offset of the first
#IMPLIED	Not applicable.	Not applicable.	character in the next
#IMIT LIED			box or cell in the chain.
ENDOFFSET CDATA			Offset of the last
#IMPLIED	Not applicable.	Not applicable.	character in the next
#IMIT LIED			boxor cell in the chain.
	If a LINKEDBOX is a	If a LINKEDBOX is a	If a LINKEDBOX is a
ROWCOUNT CDATA	table cell, this attribute	table cell, this attribute	table cell, this attribute
#IMPLIED	identifies the row of the	identifies the row of the	identifies the row of the
#IMIT LIED	cell. Otherwise, not	cell. Otherwise, not	cell. Otherwise, not
	applicable.	applicable.	applicable.
	If a LINKEDBOX is a	If a LINKEDBOX is a	If a LINKEDBOX is a
COLUMNCOUNT	table cell, this attribute	table cell, this attribute	table cell, this attribute
CDATA #IMPLIED	identifies the column of	identifies the column of	identifies the column of
CDAIA #IMITLIED	the cell. Otherwise, not	the cell. Otherwise, not	the cell. Otherwise, not
	applicable.	applicable.	applicable.

LIST (Modifier schema)

Element type	Construct	Modify	Deconstruct
LIST ((PARAGRAPH	LIST element typeSpecifies a	Specifies a List in a	Identifies a List in a
RICHTEXT)*,OVERMAT	List in a QuarkXPress	QuarkXPress project.	QuarkXPress
TER?)	project.	QuarkAriess project.	project.
Attributes			
OPERATION (CREATE		Specifies whether to	
DELETE) #IMPLIED	Not applicable.	create a list or delete a	Not applicable.
DELETE) #INIT LIED		list.	
LISTSTYLE CDATA	Name of the List as defined	Name of the List as	Name of the List as
#REQUIRED	in QuarkXPress.	defined in	defined in
#REQUIRED	iii Quarkai iess.	QuarkXPress.	QuarkXPress.

LOCATION (Modifier schema)

Eleme nt type	Construct	Modify	Dec ons truc t
LOCA	LOCATION element typeLets you specify the	Lets you specify the maximum or	Not
TION	maximum or minimum location on the page	minimum location on the page of a	app
(empt	of a box's upper-left corner for a fit-box-to-	box's upper-left corner for a fit-box-to-	lica
y)	content operation.	content operation.	ble.
Attribu	tes		
X CDAT A	The largest or smallest allowable coordinate for the left side of the resized box.	The largest or smallest allowable coordinate for the left side of the resized box.	Not app lica

Eleme nt type	Construct	Modify	Dec ons truc t
#REQ UIRE D			ble.
Y CDAT A #REQ UIRE D	The largest or smallest allowable coordinate for the top side of the resized box.	The largest or smallest allowable coordinate for the top side of the resized box.	Not app lica ble.

LOCKTOGRID (Modifier schema)

Element type	Construct	Modify	Deconstruct
	LOCKTOGRID element	Specifies whether this	Specifies whether this
	typeSpecifies whether this	paragraph is locked to	paragraph is locked to
LOCKTOGRID	paragraph is locked to the	the baseline grid. You	the baseline grid. You
(empty)	baseline grid. You can	can choose to lock to	can choose to lock to
	choose to lock to the page	the page grid or the	the page grid or the
	grid or the text box grid.	text box grid.	text box grid.
Attributes			
ENABLED (true	Specifies whether	Specifies whether	Specifies whether
false none)	LOCKTOGRID is enabled.	LOCKTOGRID is	LOCKTOGRID is
"none"	LOCKTOGRID is eliabled.	enabled.	enabled.
GRIDLEVEL (PAGE	Specifies whether GRID	Specifies whether GRID	Specifies whether GRID
TEXTBOX)	applies on page level or text	applies on page level or	applies on page level or
"PAGE"	box level.	text box level.	text box level.
GRIDTYPE			
(TOPLINE			
BOTTOMLINE	Specifies grid type applied on	Specifies and type	Specifies and type
LEFTLINE	Specifies grid type applied on		Specifies grid type
RIGHTLINE	page level or text box level	applied on page level	applied on page level
CENTERLINE	grid.	or text box level grid.	or text box level grid.
BASELINE)	BASELINE)		
"BASELINE"			

MASTERPAGESEQUENCE (Modifier schema)

Element type	Construct	Modify	Deconstruct
MASTERPAGESEQUEN		MASTERPAGESEQUEN	
CE (NAME		CE element	
(SINGLEMASTERPAGER	Nat amplicable	typeEnables you to	Not applicable
EFERENCE	Not applicable.	define the application	Not applicable.
REPEATABLEMASTERPA		of master pages during	
GEREFERENCE		the pagination process.	

Element type	Construct	Modify	Deconstruct
		It is identified by a	
		unique name and can	
REPEATABLEMASTERPA		be referenced by name	
GEALTERNATIVES)		as many times as	
		needed. The children of	
		MASTERPAGESEQUEN	
		CE are termed sub-	
		sequences.	
Attributes		-	
		Specifies the unique	
NAME	Not applicable.	name of the	Not applicable.
INAIVIE	Not applicable.	MASTERPAGESEQUEN	inot applicable.
		CE	

MATHEQUATION (Modifier schema)

Element type	Construct	Modify	Deconstruct
UATION	MATHEQUATION element typeContains an XPressMath equation in XPressMath ASCII language format.	equation in XPressMath	Contains an XPressMath equation in XPressMath ASCII language format.

MAX (Modifier schema)

Element type	Construct	Modify	Deco nstr uct
(LOCATION	1	Lets you specify the maximum location, size, or scale of a box for a fit-box-to-content operation.	Not appli cabl e.

METADATA (Modifier schema)

Eleme nt	Construct	Modify	Deconstruct
type			
META	METADATA element typeSpecifies if the	Specifies if the box will have	Describes the
DATA	box will have metadata associated with	metadata associated with it.	metadata
(VALU	it. Metadata takes the form of key/value	Metadata takes the form of	associated with
E+)	pairs.	key/value pairs.	the box.

MIN (Modifier schema)

Element type	Construct	Modify	Deco nstr uct
MIN (LOCATION SIZE SCALETO)	l	Lets you specify the minimum location, size, or scale of a box for a fit-box-to-content operation.	Not appli cable

MOVEDOWN (Modifier schema)

Element type	Construct	Modify	Decon struct
MOVEDOW	MOVEDOWN	Moves a box down by the specified number of	Not
N	element typeNot	points.Note: You can move a box or line onto another	applica
(#PCDATA)	applicable.	page.	ble.

MOVELEFT (Modifier schema)

Element type	Construct	Modify	Decons truct
1	LMOVELEET element	points.Note: You can move a box or line onto another	Not applica ble.

MOVERIGHT (Modifier schema)

Element type	Construct	Modify	Decon struct
MOVERIGH	MOVERIGHT	Moves a box to the right by the specified number of	Not
Т	element typeNot	points.Note: You can move a box or line onto another	applic
(#PCDATA)	applicable.	page.	able.

MOVEUP (Modifier schema)

Element type	Construct	Modify	Decons truct
T(#PCDATA		Moves a box up by the specified number of points.Note: You can move a box or line onto another page.	Not applica ble.

NOTE (Modifier schema)

Element type	Construct	Modify	Deconstruct
NOTE (#PCDATA)	NOTE element typeDescribes a note in text.	Describes a note in text.	Describes a note in text.
Attributes	•	•	
CREATEDBY CDATA	Not applicable.	Not applicable.	The username of the
#IMPLIED	Not applicable.	Not applicable.	creator of the note.
CREATEDON CDATA	Not applicable.	Not applicable.	The creation date of the
#IMPLIED	Not applicable.	Not applicable.	note.
BACKGROUNDCOLOR	The background color of	The background	The background color of
CDATA #IMPLIED	the note.	color of the note.	the note.

ODDTROWSTYLE (Modifier schema)

Element type	Construct	Modify	Decon struct
ODDTROWSTYLE (TOPGRID?,	ODDTROWSTYLE element	Defines a style for odd	Not
BOTTOMGRID?)	typeDefines a style for odd rows in	rows in an	applic
BOTTOMGRID:)	an <inlinetable>.</inlinetable>	<inlinetable></inlinetable>	able.
Attributes			
	Identifies the paragraph style sheet	Identifies the	Not
PARASTYLE CDATA #IMPLIED	for the row style.	paragraph style sheet	applic
	for the low style.	for the row style.	able.
ALIGNMENT (LEFT RIGHT	Identifies the paragraph alignment	Identifies the	Not
CENTER JUSTIFIED	for the row style.	paragraph alignment	applic
FORCED) #IMPLIED	for the low style.	for the row style.	able.
	Identifies the text angle for the row style.	Identifies the text	Not
ANGLE CDATA #IMPLIED		angle for the row	applic
	style.	style.	able.
VALIGN (TOP CENTER	Specifies the vertical alignment of	Specifies the vertical	Not
BOTTOM) #IMPLIED	the row style.	alignment of the row	applic
BOTTOWI) #IIVII EIED	the low style.	style.	able.
	Specifies the background color of	Specifies the	Not
COLOR CDATA #IMPLIED	the row style.	background color of	applic
	the low style.	the row style.	able.
	Specifies the background shade of	Specifies the	Not
SHADE CDATA #IMPLIED	the row style.	background shade of	applic
	the low style.	the row style.	able.
	Specifies the text inset of the row	Specifies the text inset	Not
INSET CDATA #IMPLIED	*	of the row style.	applic
	style.	of the low style.	able.

ODDTCOLSTYLE (Modifier schema)

Element type	Construct	Modify	Decon struct
ODDTCOLSTYLE (LEFTGRID?,	71		Not applica
RIGHTGRID?) Attributes	<inlinetable>.</inlinetable>	<inlinetable>.</inlinetable>	ble.
WIDTH CDATA #IMPLIED	Specifies the width of the column style.	Specifies the width of the column style.	Not applica ble.
COLOR CDATA #IMPLIED	Specifies the background color of the column style.	Specifies the background color of the column style.	Not applica ble.
SHADE CDATA Specifies the background shade of the #IMPLIED column style.		Specifies the background shade of the column style.	Not applica ble.

ORIGIN (Modifier schema)

Element type	Construct	Modify	Deconstruct
ORIGIN (empty)	ORIGIN element typeSpecifies an item's size and its position relative to the upper left corner of its page or spread.	Specifies an item's size and its position relative to the upper left corner of its page or spread.	Specifies an item's size and its position relative to the upper left corner of its page or spread.
Attributes	or no page or spread.	no page of spream	in page or spream
X CDATA #REQUIRE D	The distance between the left side of the item and the left edge of the page or spread.	The distance between the left side of the item and the left edge of the page or spread.	The distance between the left side of the item and the left edge of the page or spread.
Y CDATA #REQUIRE D	The distance between the top side of the item and the top edge of the page or spread.	The distance between the top side of the item and the top edge of the page or spread.	The distance between the top side of the item and the top edge of the page or spread.
RELATIVE TO (PAGE SPREAD) "SPREAD"	Indicates whether the item's position is relative to the page or to the spread.	Indicates whether the item's position is relative to the page or to the spread.	Indicates whether the item's position is relative to the page or to the spread.

OVERMATTER (Modifier schema)

Element type	Construct	Mo dify	Deconstruct
OVERMATTER (PARAGRAPH RICHTEXT	OVERMATT	Not	Identifies where the current
ANCHOREDBOXREF GROUPCHARACTERS	ER element	app	box overflows when there is
HIDDEN RUBI CALLOUTANCHOR	typeNot	lica	no subsequence box for text
INLINEBOX MATHEQUATION)*	applicable.	ble.	to flow into.

PAGE (Modifier schema)

Elemen t type	Construct	Modify	Deconstruct
PAGE (ID, SECTI ON?)	PAGE element typeA page to be created.	The page to be created or deleted.Note: To locate a page, for example, for creating a box, you use the GEOMETRY@PAGE attribute in the BOX element.	Indicates a page's absolute page number (in the ID@UID element)Note: Page names are not returned.
Attribut	es		
OPERA TION (CREA TE DELET E) #IMPLI ED	Not applicable.	Specifies whether to create or delete the indicated page.	Not applicable.
1	Identifies the master page from which to create a page. This value should be specified as a number, with 3 indicating the first master page.Note: Only the number of a master page is included in this attribute. The definition of the master page is stored in the project's Job Jackets file.	Identifies the master page from which to create a page. This value should be specified as a number, with 3 indicating the first master page.	Identifies the master page that is applied to a page. Specified as a number, with "1" indicating the first master page.Note: Only the number of a master page is included in this attribute. The definition of the master page is stored in the project's Job Jackets file.
POSITI ON (LEFTO FSPINE RIGHT OFSPI NE) "RIGH TOFSPI NE"	Specifies whether a page should be on the left or right side of the spine.	Specifies whether a page should be on the left or right side of the spine.	Specifies whether a page is on the left or right of the spine.
FORM ATTED NAME CDATA #IMPLI ED	Not applicable.	Not applicable.	The string that displays in automatically created page numbers. A combination of the PREFIX, FORMAT, and NUMBER for this page's <section> element.</section>

PAGEBREAK (Modifier schema)

Elemen t type PAGEBR EAK (empty)	PAGEBREAK element typeAllows you to change the master page applied to the next page. You can also control whether the next page is on the left or right, and specify a master page to be inserted if necessary.	Allows you to change the master page applied to the next page. You can also control whether the next page is on the left or right, and specify a master page to be inserted if necessary.	De co ns tr uc t N ot ap pli ca bl e.
Attribute NEXTP AGE (RECTO VERSO) "RECT O"	Specifies whether the next page should be right-facing (recto) or left-facing (verso).	Specifies whether the next page should be right-facing (recto) or left-facing (verso).	N ot ap pli ca bl e.
BLANK PAGE (YES NO) "NO"	Indicates whether to insert a blank page between this page and the next page. Applicable only if this page and the next page are both recto or both verso.	Indicates whether to insert a blank page between this page and the next page. Applicable only if this page and the next page are both recto or both verso.	N ot ap pli ca bl e.
BLANK MASTE R CDATA #IMPLI ED	Specifies the name of the master page to be applied to the inserted blank page (if any).	Specifies the name of the master page to be applied to the inserted blank page (if any).	N ot ap pli ca bl e.
NEXTM ASTER CDATA #IMPLI ED	Specifies the name of the master page to be applied to the next page.	Specifies the name of the master page to be applied to the next page.	N ot ap pli ca bl e.

PAGEREF (Modifier schema)

Element type	Construct	Modif y	Deconstruct
PAGEREF (empty)	PAGEREF element typeNot applicable.	Not applic able.	Identifies a page within the layout corresponding to a multi-page Composition Zones item.
NUMBER CDATA #IMPLIED	Not applicable.	Not applic able.	Specifies the number of the page currently displayed. You can set this value using the COMPOSITIONZONE element's PREVIEWPAGE attribute.
ANGLE CDATA #IMPLIED	Not applicable.	Not applic able.	Specifies the angle applied to the Composition Zones item.
OFFSETACRO SS CDATA #IMPLIED	Not applicable.	Not applic able.	Specifies the horizontal offset applied to the Composition Zones item.
OFFSETDOW N CDATA #IMPLIED	Not applicable.	Not applic able.	Specifies the vertical offset applied to the Composition Zones item.
SCALE CDATA #IMPLIED	Not applicable.	Not applic able.	Specifies the scale applied to the Composition Zones item.

PAGESEQUENCE (Modifier schema)

Element type	C o ns tr uc t	Modify	D ec o ns tr uc t
PAGESEQUE NCE (MASTERREF ERENCE*, FORCEPAGE COUNT* (SECTIONN UMBERFOR MAT STATICCON TENT STORY))	N ot ap pli ca bl e.	PAGESEQUENCE element typeEnables you to define a sequence of pages which can be a logical section, chapter, article etc. @MASTERREFERENCE allows you to refer to MASTERPAGESEQUENCE or a master page in template.	N ot ap pli ca bl e.
Attributes			
MASTERREF ERENCE	N ot	Unique name of the MASTERPAGESEQUENCE.	N ot

Element type	C o ns tr uc t	Modify	D ec o ns tr uc t ap pli
FORCEPAGE COUNT	N ot ap pli ca bl e.	Imposes a condition on the number of pages in a PAGESEQUENCE. In the event that this constraint is not satisfied, an additional blank page will be added to the end of the sequence. Valid values include:AUTO (Default) The action taken depends on the existance of a succeeding PAGESEQUENCE and the value of the INITIALPAGENUMBER property specified within the SECTIONNUMBERFORMAT element. Even Forces an even page count for teh page sequenceOdd Forces an odd page count for the page sequenceENDONEVEN Forces the last page to have an even page numberENDONODD forces the laspage to have an odd page numberNOFORCE Does not force any page count	N ot ap pli ca bl e.
ORIENTATIO N	N ot ap pli ca bl e.	Specifies the page orientation. The value can be set to LANDSCAPE or PORTRAIT. If the value is set to LANDSCAPE, the project template must already contain a layout with the name Landscape, because the content of the page sequence will flow into a landscape layout made available in the template. If the value is set to LANDSCAPE, this would result in a mixed mode PDF output.	N ot ap pli ca bl e.

PARAGRAPH (Modifier schema)

Element type	Construct	Modify	Deconstruct
PARAGRAPH			
((TABSPEC REFNOTE			
RULE FORMAT			
RICHTEXT			
COLUMNFLOW			
ANCHOREDBOXREF			
HIDDEN	PARAGRAPH element		
GROUPCHARACTERS	typeDescribes a	Describes a paragraph.	Describes a paragraph.
RUBI	paragraph.		
CALLOUTANCHOR			
CONTENT			
INLINEBOX XREF			
NOTE INS DEL			
PAGEBREAK			
MATHEQUATION)*)			
Attributes			

Element type	Construct	Modify	Deconstruct
	Applies a paragraph	Applies a paragraph	Identifies the paragraph
	style sheet to	style sheet to text.Note:	style sheet applied to a
	text.Note: Only the	Only the name of a	paragraph.Note: Only
	name of a paragraph	paragraph style sheet is	the name of a paragraph
	style sheet is included	included in this	style sheet is included in
	in this attribute. The	attribute. The definition	this attribute. The
PARASTYLE CDATA	definition of the style	of the style sheet is	definition of the style
#IMPLIED	sheet is stored in the	stored in the projects	sheet is stored in the
	projects Job Jackets file	Job Jackets file or	projects Job Jackets file
	or defined using the	defined using the	or defined using the
	Document Controls	Document Controls	Document Controls
	submenu in	submenu in	submenu in
	QuarkXPress Server.	QuarkXPress Server.	QuarkXPress Server.
XREFLABEL CDATA	Defines a label (name)	Defines a label (name)	Defines a label (name)
#IMPLIED	for a cross reference.	for a cross reference.	for a cross reference.
PARACHAR	D.C. 1. 1:	D.C. 1. 1:	D.C. 1. 11
(HARDRETURN VTAB	Defines a breaking	Defines a breaking	Defines a breaking
BOXBREAK)	character for a	character for a	character for a
"HARDRETURN"	paragraph.	paragraph.	paragraph.
	Specifies whether	Specifies whether	
	formatting from a	formatting from a	Indicates whether
MERGE (true false)	previous PARAGRAPH	previous PARAGRAPH	formatting from a
"false"	or RICHTEXT element	or RICHTEXT element	previous PARAGRAPH or
	should be carried over	should be carried over	RICHTEXT element is
	to the next.	to the next.	carried over to the next.
		Not applicable.	Indicates whether a
			paragraph contains a
FAUXSTYLE (BOLD			faux type style (such as a
ITALIC BOLDITALIC	Not applicable.		bold face that is
NONE) #IMPLIED			constructed by software,
			as opposed to a bold
			font).
			Identifies the
CONDITIONALSTYLE	Applies a conditional	Applies a conditional	conditional style (if any)
CDATA #IMPLIED	style to this paragraph.	style to this paragraph.	associated with this
			paragraph.
INDENTLEVEL CDATA	Sets the indent level	Sets the indent level for	Indicates the indent
#IMPLIED	for this paragraph.	this paragraph.	level of this paragraph.
	Not applicable.	Indicates the label	Indicates the label
TEXTTAGTYPE CDATA #IMPLIED		applied to a paragraph.	applied to a paragraph.
		Valid only for reflow	Valid only for reflow
		articles and	articles and
		QuarkCoypDesk	QuarkCopyDesk articles.
		articles. Valid values	Valid values include:
		include: Body Byline	Body Byline
		FigureCaption	FigureCaption
		FigureCredit Headline	FigureCredit Headline
		Headline2	Headline2
		IndentedParagraph	IndentedParagraph

Element type	Construct	Modify	Deconstruct	
		Pullquote	Pullquote	
		SectionChapterName	SectionChapterName	
		Title Title2 OrderedList	Title Title2 OrderedList	
		UnorderedList	UnorderedList	

PARENTTABLE (Modifier schema)

Element type	Construct	Modify	Deconstruct			
PARENTT ABLE (empty)	PARENTTABLE element typeIdentifies the originating table when a table has been broken.	Identifies the originating table when a table has been broken.	Identifies the originating table when a table has been broken.			
Attributes	Attributes					
NAME CDATA #IMPLIE D	Specifies the name of the parent table.	Specifies the name of the parent table.	Specifies the name of the parent table.			
UID CDATA #IMPLIE D	Not applicable.	Specifies the ID of the parent table assigned from QuarkXPress Server.	Specifies the ID of the parent table assigned from QuarkXPress Server.			

PICTURE (Modifier schema)

Elem ent type	Construct	Modify	Deconstruct			
PICT URE (emp ty)	PICTURE element typeDescribes the properties of a picture box.	Describes the properties of a picture box.	Describes the properties of a picture box.			
Attrib	Attributes					
FIT (CEN TERP ICTU RE FITPI CTU RET OBO X FITB OXT OPIC TUR	Specifies how a picture should fit within a picture box.CENTERPICTURE = Shifts a picture to the center of the picture box without changing the pictures scale.FITPICTURETOBOX = Scales a picture to fit in its box exactly. The picture cannot be reduced to a size smaller than 10% or increased to a size larger than 1000%, both horizontally and vertically.FITBOXTOPICTURE = Resizes a box to fit its picture.FITPICTURETOBOXPRO =	Specifies how a picture should fit within a picture box.CENTERPICTURE = Shifts a picture to the center of the picture box without changing the pictures scale.FITPICTURETOBOX = Scales a picture to fit in its box exactly. The picture cannot be reduced to a size smaller than 10% or increased to a size larger than 1000%, both horizontally and vertically.FITBOXTOPICTURE = Resizes a box to fit its picture.FITPICTURETOBOXPRO =	Not applicable.			

Elem			
ent	Construct	Modify	Deconstruct
type	Construct	inoun,	Beconstruct
E			
FITPI			
CTU	Scales a picture in a picture box in	Scales a picture in a picture box in	
RET	such a way that the x scale and y	such a way that the x scale and y	
OBO	scale of a picture remain the same.	scale of a picture remain the same.	
XPR	The picture cannot be reduced to a	The picture cannot be reduced to a	
0	size smaller than 10% or increased to	size smaller than 10% or increased to	
NON	a size larger than 1000%, both	a size larger than 1000%, both	
E)	horizontally and vertically.	horizontally and vertically.	
"NO	monzontany and verticany.	lionzontally and vertically.	
NE"			
SCAL			
EAC			Specifies the
1	Specifies the horizontal scale of a	Specifics the horizontal scale of a	horizontal scale
1	Specifies the horizontal scale of a	Specifies the horizontal scale of a	of a picture as
CDA	picture as an integer percentage from	picture as an integer percentage from	an integer
TA #IMP	10 to 1000.	10 to 1000.	percentage from
			10 to 1000.
LIED			
SCAL			Specifies the
EDO			vertical scale of
WN	Specifies the vertical scale of a	Specifies the vertical scale of a	a picture as an
CDA	picture as an integer percentage from	picture as an integer percentage from	integer
TA	10 to 1000.		percentage from
#IMP			10 to 1000.
LIED			
OFFS			
ETA			Specifies a
CRO	Const. Const. In advantal affect for the	Const. Const. In a st. on the language of the st.	horizontal
SS		Specifies a horizontal offset for the	offset for the
CDA	content of a picture box.	content of a picture box.	content of a
TA			picture box.
#IMP			
LIED			
OFFS			
ETD			Specifics :
OW	Specifical artest for the	Smooifing a grantical affect for the	Specifies a
N	Specifies a vertical offset for the	Specifies a vertical offset for the	vertical offset
CDA	content of a picture box.	content of a picture box.	for the content
TA #IX (D			of a picture box.
#IMP			
LIED			
ANG			Specifies a
LE	Specifies a rotation angle for a	Specifies a rotation angle for a	rotation angle
CDA	picture as a floating-point value	picture as a floating-point value	for a picture as
TA	between –360 degrees and 360	between –360 degrees and 360	a floating-point
#IMP	degrees.	degrees.	value between –
LIED			360 degrees and

Elem			
ent	Construct	Modify	Deconstruct
type			
			360 degrees.
SKE			Specifies a skew
W			angle for a
CDA	Specifies a skew angle for a picture as	Specifies a skew angle for a picture as	picture as a
TA	a floating-point value from –75	a floating-point value from –75	floating-point
#IMP	degrees to 75 degrees.	degrees to 75 degrees.	value from –75
LIED			degrees to 75
Lilb			degrees.
			Identifies a
			color applied to
			a grayscale
			picture.Note:
			Only the name
			of a color is
			included in this
	Identifies a color to be applied to a	Identifies a color to be applied to a	attribute. The
PICC	grayscale picture.Note: Only the	grayscale picture.Note: Only the	definition of
OLO	name of a color is included in this	name of a color is included in this	the color is
R	attribute. The definition of the color	attribute. The definition of the color	stored in the
CDA	is stored in the projects Job Jackets	is stored in the projects Job Jackets	projects Job
TA	file or defined using the Document Controls submenu in QuarkXPress Server.	file or defined using the Document Controls submenu in QuarkXPress Server, or an existing color created and saved in the project.	Jackets file or
#IMP			defined using
LIED			the Document
			Controls
			submenu in
			QuarkXPress
			Server, or an
			existing color
			created and
			saved in the
			project.
SHA			Specifies the shade of the
DE DE			color applied to
CDA	Specifies the shade of the color	Specifies the shade of the color	a grayscale
TA	applied to a grayscale picture, as an	applied to a grayscale picture, as an	picture, as an
#IMP	integer percentage from 0 to 100.	integer percentage from 0 to 100.	integer
LIED			percentage from
			0 to 100.
OPA			Specifies the
CITY			opacity of a
CDA	Specifies the opacity of a picture, as	Specifies the opacity of a picture, as	picture, as an
TA	an integer percentage from 0 to 100.	an integer percentage from 0 to 100.	integer
#IMP	Percentage from 0 to 100.	Percentage from 0 to 100.	percentage from
LIED			0 to 100.
	Identifies the best ground1	Identifies the best ground1	
PICB	Identifies the background color	Identifies the background color	Identifies the
ACK	applied to a grayscale picture.	applied to a grayscale picture.	background

Elem			
ent	Construct	Modify	Deconstruct
type	Construct	induity .	Beconstruct
GRO			color applied to
UND			a grayscale
COL			picture.
OR			picture.
CDA			
TA			
#IMP			
LIED			
PICB			
ACK			Specifies the
GRO			shade of the
UND	Specifies the shade of the	Specifies the shade of the	background
SHA	background color applied to a	background color applied to a	color applied to
DE	grayscale picture, as an integer	grayscale picture, as an integer	a grayscale
CDA			picture, as an
TA	percentage from 0 to 100.	percentage from 0 to 100.	integer
#IMP			percentage from
			0 to 100.
LIED PICB			
1			Specifies the
ACK			opacity of the
GRO	Const. Const. do a const. a const. do a const.	Const. Co	background
UND	Specifies the opacity of the	Specifies the opacity of the	color applied to
OPA	background color applied to a	background color applied to a	a grayscale
CITY	grayscale picture, as an integer	grayscale picture, as an integer	picture, as an
CDA	percentage from 0 to 100.	percentage from 0 to 100.	integer
TA			percentage from
#IMP			0 to 100.
LIED			
FLIP			
VERT			
ICAL			T 10 /
(true		711	Indicates
 _{C=1}	Pline a mi atoma continui	Flips a picture vertically. If a picture	whether a
false	Flips a picture vertically.	is already flipped vertically, then this	picture has
		flips the picture back.	been flipped
none			vertically.
],			
"non			
e"			
FLIP			
HOR			Indicates
IZO		Flips a picture horizontally. If a	whether a
NTA	Eline a nicture havigantally	picture is already flipped	
L	Flips a picture horizontally.	horizontally, then this flips the	picture has
(true		picture back.	been flipped
			horizontally.
false			

MODIFIER SCHEMA (ANNOTATED)

Elem			
ent	Construct	Modify	Deconstruct
type			
none			
])			
"non e"			
SUPR			
ESSPI			
CT			Prevents a
1	Prevents a picture from being	Prevents a picture from being	picture from
	included in output.	included in output.	being included
false)	included in output.	included in output.	in output.
"fals			III output.
e"			
FULL			
RES			Causes
(true			imported
	Courses imported nictures to display	Courses imported pietures to display	pictures to
false	Causes imported pictures to display at full resolution in QuarkXPress if	Causes imported pictures to display at full resolution in QuarkXPress if	display at full
	the picture files are available.	the picture files are available.	resolution in
none	the picture mes are available.	the picture mes are available.	QuarkXPress if
)			the picture files
"non			are available.
e"			
MAS			Identifies an
K	Identifies an alpha channel in the	Identifies an alpha channel in the	alpha channel
CDA	picture file to be used to mask the	picture file to be used to mask the	in the picture
TA	picture file.	picture file.	file that is being
#IMP			used to mask
LIED CLE			the picture file.
ARPI			
CTU			
RE			
(true	Not applicable.	Removes the picture (if any) from	Not applicable.
	rr ·····	the box.	F F
false)			
"fals			
e"			
DPI			Indicates the
CDA			picture
TA	Not applicable.	Not applicable.	resolution in
#IMP			dots per inch
LIED			(DPI).

PLACEHOLDER (Modifier schema)

Elemen t type	Construct	Mo dify	Deconstruct
PLACE HOLDE R (#PCD ATA) Attribute	element typeNot applicable.	Not app lica ble.	Describes a placeholder inserted in QuarkXPress for use with XML Import XTensions software.Note: To replace placeholders with XML content, use XML Import XTensions software with QuarkXPress, or refer to the thexmldoc and paginate parameters.
OWNE R CDATA #REQU IRED	Not applicable.	Not app lica ble.	The name of the element in the XML or DTD that created the Placeholder.

POSITION (Modifier schema)

Rather than using the POSITION element type, you can use the RELPOSITION element type to describe the position of <geometry> elements relative to the page or to the spread. To return item positions as ${\tt RELPOSITION}$ elements, use the relativegeometry parameter when deconstructing. For more information, see "XML."

Elemen t type	Construct	Modify	Deconstruct
POSITI ON (TOP, LEFT, BOTTO M, RIGHT)	POSITION element typeSpecifies the absolute position of a box or line on the page, using coordinates measured in points from the upper-left corner of the page.	position of a box or line on the page, using coordinates measured in points from	measured in points from
Attribute	es		
LOCKP ROPOR TIONS (true false) "false"	Specifies whether proportions are locked for an item.	Specifies whether proportions are locked for an item.	Specifies whether proportions are locked for an item.

PROJECT (Modifier schema)

Element type	Construct	Modify	Deconstruct
PROJECT (SAVEAS? PUBLICATI ON*	PROJECT element typeDescribes the QuarkXPress project using one or more LAYOUT elements and allows you to save a copy of the project.	the	Identifies the QuarkXPress project being deconstructed.

Element	Constant	N. 410	December
type	Construct	Modify	Deconstruct
HYPERLIN		being	
K*		modified	
TABLESTYL		and allows	
E*		you to	
LAYOUT*		save a	
STORY*		copy of	
CONTENT*		that	
)*		project.	
Attributes			
PROJECTN AME CDATA #IMPLIED	Specifies the name of the file to construct.	Not applicable.	Identifies the QuarkXPress project being deconstructed.
JOBJACKET CDATA #IMPLIED	The name and absolute path (on the server computer) of the Job Jackets file to use during construct. If the Job Jackets file cannot be located, cannot be read, or contains invalid XML, an error is returned. Note: You cannot create or modify Job Jackets files using the construct namespace and the modify attribute. To create or modify Job Jackets files, use the Job Jackets Manager dialog box (Utilities menu) in QuarkXPress.	Not applicable.	The name and path of the Job Jackets file associated with the deconstructed project.
JOBTICKET CDATA #IMPLIED	The name of the Job Ticket that contains the resources for this project.Note: All resources in the Job Ticket will be added to the project.	Not applicable.	The name of the Job Ticket associated with the deconstructed project.
XMLVERSI ON CDATA #IMPLIED	Not applicable.	Not applicable.	Identifies the version of QuarkXPress Server from which the XML is being returned. Ensures compatibility with future versions of the DTD. For example, the value 8.0 is returned for QuarkXPress Server 8.0.

PUBLICATION (Modifier schema)

Element type	Construct	Mo dif y	Deconstruct
PUBLICATI	PUBLICATI	No	Identifies a set of one or more related layout families
ON (ID,	ON	t	·
PUBLICATI	element	app	(PUBLICATIONCHANNEL elements). For example, a PUBLICATION may contain a PUBLICATIONCHANNEL for iPad and another
ONCHANN	typeNot	lica	,
EL*)	applicable.	ble.	PUBLICATIONCHANNEL for a different target device.

PUBLICATIONCHANNEL (Modifier schema)

Element type	Construct	Modify	Deconstruct
PUBLICATIONCHANN EL (ID, LAYOUTREF*)	PUBLICATIONCHANNEL element typeNot applicable.	Not applica ble.	Defines a layout family — that is, a set of related layouts (LAYOUTREFs).
Attributes			
HEIGHT CDATA #IMPLIED	Not applicable.	Not applica ble.	Specifies the height of the screen for layout family's target device.
WIDTH CDATA #IMPLIED	Not applicable.	Not applica ble.	Specifies the width of the screen for layout family's target device.

PUBLISHER (Modifier schema)

Element type	Construct	Modify	Deconstruct
PUBLISHER	PUBLISHER element	Specifies the publisher of	Specifies the publisher of
(#PCDATA)>	typeNot applicable.	an e-book.	an e-book.

REFNOTE (Modifier schema)

Element type	Construct	Modify	Deconstruct
	REFNOTE element typeLets	Lets you insert a reference	Lets you insert a reference
REFNOTE	you insert a reference note of	note of type footnote or	note of type footnote or
	type footnote or endnote.	endnote.	endnote.
Attributes			
STYLE	Specifies the name of the	Specifies the name of the	Specifies the name of the
STILE	footnote style to be applied.	footnote style to be applied.	footnote style to be applied.
RESTART			
NUMBERI	Allows you to restart the	Allows you to restart the	Allows you to restart the
NGVALU	footnote numbering.	footnote numbering.	footnote numbering.
Е			
	Comprised of	Comprised of	Comprised of
REFNOTE	PARAGRAPH(S) that form the	PARAGRAPH(S) that form	PARAGRAPH(S) that form
BODY	body of either the footnote	the body of either footnote	the body of either footnote
	or endnote.	or endnote.	or endnote.
REFEREN	Allows you to pass a custom	Allows you to pass a custom	Allows you to pass a custom
CEDTEXT	marker corresponding to	marker corresponding to	marker corresponding to
MARKER	reference superscript.	reference superscript.	reference superscript.
REFNOTE	Allows you to pass a custom	Allows you to pass a custom	Allows you to pass a custom
BODYMA	marker corresponding to a	marker corresponding to a	marker corresponding to a
RKER	reference body.	reference body.	reference body.
XREFLAB	Allows you to specify a label	Allows you to specify a	Allows you to specify a
EL	(name) for the reference.	label (name) for the	label (name) for the
EL	(name) for the reference.	reference.	reference.

RELPOSITION (Modifier schema)

To return item positions as RELPOSITION elements, use the relativegeometry parameter when deconstructing. For more information, see "XML."

Element type	Construct	Modify	Deconstruct
TION (ORIGIN , WIDTH, HEIGHT	RELPOSITION element typeSpecifies the position of a box or line, using coordinates measured in points from the upper-left corner of the page or spread.	Specifies the position of a box or line, using coordinates measured in points from the upper-left corner of the page or spread.	Specifies the position of a box or line, using coordinates measured in points from the upper-left corner of the page or spread.

REPEATABLEMASTERPAGEALTERNATIVES (Modifier schema)

Element type	Construct	Modify	Deconstruct
		REPEATABLEMASTERPA	
		GEALTERNATIVES	
		element typeThis sub-	
		sequence is useful for	
		the conditional	
		application of master	
		pages. The children of	
		the	
REPEATABLEMASTERPA		REPEATABLEMASTERPA	
GEALTERNATIVES		GEALTERNATIVES	
(MAXREPEATS	Not applicable.	element are known as	Not applicable.
(CONDITIONALMASTE	Not applicable.	alternatives. Each	Not applicable.
RPAGEREFERENCE)*)		alternative is	
KI AGEREFERENCE))		represented by a	
		CONDITIONALMASTE	
		RPAGEREFERENCE	
		element. The	
		REPEATABLEMASTERPA	
		GEALTERNATIVES	
		element may contain	
		one or more	
		alternatives.	
Attributes			
		Can be used to set an	
		upper limit on the	
		number of pages that	
MAXREPEATS	Not applicable.	may be generated using	Not applicable.
		each of the	
		CONDITIONALMASTE	
		RPAGEREFERENCE	

REPEATABLEMASTERPAGEREFERENCE (Modifier Schema)

Element type	Construct	Modify	Deconstruct
REPEATABLEMASTERPA GEREFERENCE (NAME*, MAXREPEATS*)	Not applicable.	REPEATABLEMASTERPA GEREFERENCE element typeThis sub-sequence is useful for constructing runs of identical pages. It allows you to define a sequence in which a master page is applied to multiple pages in the page sequence. Causes a bounded or unbounded sequence of pages to be generated using the same master page. (*Unbounded = Default is hardcoded to 50000)	Not applicable.
Attributes			
NAME	Not applicable.	The name of the master page in the QuarkXPress template to be used.	Not applicable.
MAXREPEATS	Not applicable.	Used to set an upper limit on the number of pages that may be generated using this specifier.	Not applicable.

RGBCOLOR (Modifier schema)

Eleme nt type	Construct	Modify	Deconstruct
RGBC OLOR (empt y)	RGBCOLOR element typeDescribes an RGB color that can be associated with a layer, as displayed in the Layers palette in QuarkXPress.	Describes an RGB color that can be associated with a layer, as displayed in the Layers palette in QuarkXPress.	Describes an RGB color that can be associated with a layer, as displayed in the Layers palette in QuarkXPress.
RED CDAT A #IMP LIED	An integer from 0 to 255, indicating the red component of an RGB color.	An integer from 0 to 255, indicating the red component of an RGB color.	An integer from 0 to 255, indicating the red component of an RGB color.
GREE	An integer from 0 to 255,	An integer from 0 to 255,	An integer from 0 to 255,

MODIFIER SCHEMA (ANNOTATED)

Eleme nt type	Construct	Modify	Deconstruct
N CDAT A #IMP LIED	indicating the green component of an RGB color.	indicating the green component of an RGB color.	indicating the green component of an RGB color.
BLUE CDAT A #IMP LIED	An integer from 0 to 255, indicating the blue component of an RGB color.	An integer from 0 to 255, indicating the blue component of an RGB color.	An integer from 0 to 255, indicating the blue component of an RGB color.

RICHTEXT (Modifier schema)

Element type	Construct	Modify	Deconstr
Element type	Construct	Wiodily	uct
RICHTEXT (#PCDATA)	RICHTEXT element typeDescribes formatting for text. Use this element to apply additional formatting besides formatting applied with a paragraph or style sheet.Note: The RICHTEXT element replaces the TYPE element in QuarkXPress Server 7.2 and later.	Describes formattin g for text. Use this element to apply additiona l formattin g besides formattin g applied with a paragraph or style sheet.Not e: The RICHTEX T element replaces the TYPE element in QuarkXPr ess Server 7.2 and later.	e: The RICHTEX T element replaces the TYPE element in QuarkXPr ess Server 7.2 and
Attributes			
	Identifies a character style	Identifies	Identifies
CHARSTYLE CDATA #IMPLIED	sheet to be applied to	a	the
	text.Note: Only the name	character	character

Element type	Construct	Modify	Deconstr uct
	of an H&J specification is	style	style
	included in this attribute.	sheet to	sheet
	The definition of the H&J	be	applied to
	specification is stored in	applied to	text.Note:
	the projects Job Jackets file	text.	Only the
	or defined using the		name of
	Document Controls		an H&J
	submenu in QuarkXPress		specificati
	Server.		on is
			included
			in this
			attribute.
			The
			definition
			of the
			H&J
			specificati
			on is
			stored in
			the
			projects
			Job
			Jackets
			file or
			defined
			using the
			Documen
			t Controls
			submenu
			in Overly VDm
			QuarkXPr ess Server.
		Identifies	Identifies
		a text	a text
		shading	shading
SHADINGSTYLENAME	Identifies a text shading	style to	style to
SHADINGSTILLIVAME	style to be applied to text.	be	be
		l	applied to
		text.	text.
		Removes	Removes
		existing	existing
		_	formattin
	Removes existing	g and	g and
PLAIN (true false none) "none"	formatting and renders text	renders	renders
	as plain text.	text as	text as
		plain	plain
		text.	text.
MERGE (true false) "false"	Specifies whether the	Specifies	Specifies
TATEMOL (Huc 1013C) 1013C	opecines whether the	opecines	specifies

Element type	Construct	Modify	Deconstr uct
	formatting from the previous RICHTEXT tag should be carried into this RICHTEXT tag.	g from the previous RICHTEX T tag should be carried into this	whether the formattin g from the previous RICHTEX T tag should be carried into this RICHTEX T tag.
BOLD (true false none) "none"	Applies the bold type style to text.	Applies the bold type style to text.	Identifies the bold type style applied to text.
ITALIC (true false none) "none"	Applies the italic type style to text.	Applies the italic type style to text.	Identifies the italic type style applied to text.
FONT CDATA #IMPLIED	Identifies a font to be applied to text.	Identifies a font to be applied to text.	Identifies a font applied to text.
MISSINGFONT (true false) "false"	If the font is missing on rendering, then this attribute is set to true. This allows you to identify when rendering a portion of text that the original font is missing on the machine where the rendering is taking place, and allows your application to substitute the font (overriding the inbuilt font mapping functionality in QuarkXPress Server). If the font specified in the XML is missing and if the MISSINGFONT attribute is present then this becomes the basis for applying font fallback on the particular	If the font is missing on rendering , then this attribute is set to true. This allows you to identify when rendering a portion of text that the original font is	If the font is missing on rendering , then this attribute is set to true. This allows you to identify when rendering a portion of text that the original font is

Element type	Construct	Modify	Deconstr uct
	text run if the FontFallBack preference is enabled. Otherwise this would cause an error because the required font is missing.	rendering is taking place, and allows your applicatio n to substitute the font (overridin g the inbuilt font mapping functiona lity in	missing on the machine where the rendering is taking place, and allows your applicatio n to substitute the font (overridin g the inbuilt font mapping functiona lity in QuarkXPr ess Server).
PSFONTNAME CDATA #IMPLIED	Some fonts have different postscript and menu display names. The FONTNAME attribute describes the menu name of the font, and PSFONTNAME describes the internal postscript name of the font family.	name of the font, and PSFONTN AME describes the internal	Some fonts have different postscript and menu display names. The FONTNA ME attribute describes the menu name of the font, and PSFONTN AME describes the internal postscript

Element type	Construct	Modify	Deconstr uct
		name of the font family.	name of the font family.
SIZE CDATA #IMPLIED	Specifies a size for text, from 2 to 720 points.	Specifies a size for text, from 2 to 720 points.	Identifies the size of the text, from 2 to 720 points.
FONTSET CDATA #IMPLIED	Identifies a font set that has been applied to text. Note that you can apply font sets during a Construct operation, but you cannot create them.	Identifies a font set that has been applied to text. Note that you can apply font sets during a Modify operation , but you cannot create them.	a font set that has been applied to text.
FONTSETSIZE CDATA #IMPLIED	Specifies the size of the font set that has been applied to text. (The base size of text can be different from its font set size.)	the font set that has been	Specifies the size of the font set that has been applied to text. (The base size of text can be different from its font set size.)
COLOR CDATA #IMPLIED	Identifies the color for text.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress	Identifies the color for text.Note: Only the name of a color is included in this	Identifies the color for text.Note: Only the name of a color is included in this

Element type	Construct	Modify	Deconstr
			uct
		attribute.	attribute.
		The	The
			definition
		of the	of the
	Server.	color is	color is
		stored in	stored in
		the	the
		projects	projects
		Job	Job
		Jackets	Jackets
		file or	file or
		defined	defined
		using the	using the
		Documen	Documen
		t Controls	t Controls
		submenu	submenu
		in	in
		QuarkXPr	QuarkXPr
		ess Server,	ess Server,
		or an	or an
		existing	existing
		color	color
		created	created
			and saved
		in the	in the
		project.	project.
		Specifies	Identifies
		the shade	the shade
		of text	of text
	Specifies the shade of text color, as an integer	color, as	color, as
SHADE CDATA #IMPLIED			an integer
	percentage from 0 to 100.	percentag	
		e from 0	e from 0
		to 100.	to 100.
		Specifies	Identifies
		the	the
		opacity of	
		text,	text,
	Specifies the opacity of	specified	specified
OPACITY CDATA #IMPLIED	text, specified as an integer	as an	as an
	percentage from 0 to 100.	integer	integer
		_	_
		percentag e from 0	percentag e from 0
		to 100.	to 100.
	Specifies if the text will be	Specifies	Specifies
 NONBREAKING (true false none) "none"	nonbreaking or not. Used	if the text	if the text
TVOTVDREAKTIVO (true taise florie) florie	for special character (e.g.,	will be	will be
	for a hyphen: <richtext< td=""><td>nonbreak</td><td>nonbreak</td></richtext<>	nonbreak	nonbreak
L		<u> </u>	

Element type	Construct	Modify	Deconstr uct
	NONBREAKING="true"> -)	(e.g., for a thinspace : <richte aking=" true" nonbre="" xt=""></richte>	ing or not. Used for special characters (e.g., for a thinspace : <richte aking=" true" nonbre="" xt=""> </richte>
UNDERLINE (true false none) "none"	Applies the underline type style to text.	Applies the underline type style to text.	Identifies the underline type style applied to text.
WORDUNDERLINE (true false none) "none"	Applies the word underline type style to text.	Applies the word underline type style to text.	Identifies the word underline type style applied to text.
SMALLCAPS (true false none) "none"	Applies small caps to text.	Applies small caps to text.	Identifies small caps applied to text.
ALLCAPS (true false none) "none"	Applies all caps to text.	Applies all caps to text.	Identifies all caps applied to text.
SUPERSCRIPT (true false none) "none"	Applies the superscript type style to text.	Applies the superscrip t type style to text.	Identifies the superscrip t type style applied to text.
SUBSCRIPT (true false none) "none"	Applies the subscript type style to text.	Applies the subscript type style to text.	Identifies the subscript type style applied to text.

Element type	Construct	Modify	Deconstr uct
SUPERIOR (true false none) "none"	Applies the superior type style to text.	Applies the superior type style to text.	Identifies the superior type style applied to text.
OUTLINE (true false none) "none"	Applies the outline type style to text.	Applies the outline type style to text.	Identifies the outline type style applied to text.
SHADOW (true false none) "none"	Applies the shadow type style to text.	Applies the shadow type style to text.	Identifies the shadow type style applied to text.
STRIKETHRU (true false none) "none"	Applies the strikethru type style to text.	Applies the strikethru type style to text.	Identifies the strikethru type style applied to text.
EMPHASISMARK (NONE DOT BLACKCIRCLE WHITECIRCLE WHITESQUARE FISHEYE COMMA BLACKSESAME WHITESESAME BLACKTRIANGLE) "NONE"	Allows an emphasis mark to be placed on this RICHTEXT.	Allows an emphasis mark to be placed on this RICHTEX T.	Allows an emphasis mark to be placed on this RICHTEX T.
BASELINESHIFT CDATA #IMPLIED	Shifts text up or down without affecting paragraph line spacing. A positive value raises text; a negative value lowers text.	Shifts text up or down without affecting paragraph line spacing. A positive value raises text; a negative value lowers text.	Identifies a shift of text up or down without affecting paragraph line spacing. A positive value raises text; a negative value lowers text.

Element type	Construct	Modify	Deconstr uct
HORIZONTALSCALE CDATA #IMPLIED	Applies a horizontal scale to text, which makes characters narrower or wider.	Applies a horizonta l scale to text, which makes characters narrower or wider.	Identifies a horizonta l scale applied to text, which makes characters narrower or wider.
VERTICALSCALE CDATA #IMPLIED	Applies a vertical scale to text, which makes characters taller or shorter. Specified as an integer percentage from 25 to 400.	Applies a vertical scale to text, which makes characters taller or shorter. Specified as an integer percentag e from 25 to 400.	Identifies a vertical scale applied to text, which makes characters taller or shorter. Specified as an integer percentag e from 25 to 400.
TRACKAMOUNT CDATA #IMPLIED	Adjusts the amount of space between characters and words.	Adjusts the amount of space between characters and words.	Identifies an amount of adjusted space applied between characters and words.
KERNAMOUNT CDATA #IMPLIED	Adjusts the amount of space between two characters.	Adjusts the amount of space between two characters	Identifies an amount of adjusted space applied between two characters

Element type	Construct	Modify	Deconstr uct
LIGATURES (true false none) "none"	Indicates whether standard ligatures should be applied.	Indicates whether standard ligatures should be applied.	Indicates whether standard ligatures are applied.
OT_STANDARD_LIGATURES (true false none) "none"	Applies the OpenType standard ligatures type style to text.	Applies the OpenTyp e standard ligatures type style to text.	Identifies the OpenTyp e standard ligatures type style applied to text.
OT_DISCRETIONARY_LIGATURES (true false none) "none"	Applies the OpenType discretionary type style to text.	Applies the OpenTyp e discretion ary type style to text.	Identifies the OpenTyp e discretion ary type style applied to text.
OT_ORDINALS (true false none) "none"	Applies the OpenType ordinals type style to text.	Applies the OpenTyp e ordinals type style to text.	Identifies the OpenTyp e ordinals type style applied to text.
OT_TITLING_ALTERNATES (true false none) "none"	Applies the OpenType titling alternates type style to text.	Applies the OpenTyp e titling alternates type style to text.	Identifies the OpenTyp e titling alternates type style applied to text.
OT_ALL_SMALL_CAPS (true false none) "none"	Applies the OpenType all small caps type style to text.	Applies the OpenTyp e all small caps type style to text.	Identifies the OpenTyp e all small caps type style applied to text.

Element type	Construct	Modify	Deconstr uct
OT_FRACTIONS (true false none) "none"	Applies the OpenType fractions type style to text.	Applies the OpenTyp e fractions type style to text.	Identifies the OpenTyp e fractions type style applied to text.
OT_SWASHES (true false none) "none"	Applies the OpenType swashes type style to text.	Applies the OpenTyp e swashes type style to text.	Identifies the OpenTyp e swashes type style applied o text.
OT_SMALL_CAPS (true false none) "none"	Applies the OpenType small caps type style to text.	Applies the OpenTyp e small caps type style to text.	Identifies the OpenTyp e small caps type style applied to text.
OT_CONTEXTUAL_ALTERNATIVES (true false none) "none"	Applies the OpenType contextual alternates type style to text.	Applies the OpenTyp e contextua l alternates type style to text.	Identifies the OpenTyp e contextua l alternates type style applied to text.
OT_TABULAR_FIGURES (true false none) "none"	Applies the OpenType tabular figures type style to text.	Applies the OpenTyp e tabular figures type style to text.	Identifies the OpenTyp e tabular figures type style applied to text.
OT_PROPORTIONAL_FIGURES (true false none) "none"	Applies the OpenType proportional figures type style to text.	Applies the OpenTyp e proportio nal figures	Identifies the OpenTyp e proportio nal figures

Element type	Construct	Modify	Deconstr uct
		type style to text.	type style applied to text.
OT_LINING_FIGURES (true false none) "none"	Applies the OpenType lining figures type style to text.	Applies the OpenTyp e lining figures type style to text.	Identifies the OpenTyp e lining figures type style applied to text.
OT_NONE (true false none) "none"	Removes OpenType formatting from text.	Removes OpenTyp e formattin g from text.	Indicates the OpenTyp e formattin g has been removed from text.
OT_SUPERSCRIPT (true false none) "none"	Applies the OpenType superscript type style to text.	Applies the OpenTyp e superscrip t type style to text.	Identifies the OpenTyp e superscrip t type style applied to text.
OT_SUBSCRIPT (true false none) "none"	Applies the OpenType subscript type style to text.	Applies the OpenTyp e subscript type style to text.	Identifies the OpenTyp e subscript type style applied to text.
OT_NUMERATOR (true false none) "none"	Applies the OpenType numerator type style to text.	Applies the OpenTyp e numerato r type style to text.	Identifies the OpenTyp e numerato r type style applied to text.
OT_DENOMINATOR (true false none) "none"	Applies the OpenType denominator type style to	Applies the	Identifies the

Element type	Construct	Modify	Deconstr uct
	text.	OpenTyp e denomin ator type style to text.	OpenTyp e denomin ator type style applied to text.
OT_OLDSTYLE_FIGURES (true false none) "none"	Applies the OpenType old style figures type style to text.	Applies the OpenTyp e old style figures type style to text.	Identifies the OpenTyp e old style figures type style applied to text.
OT_SCIENTIFIC_INFERIOR_FEATURE (true false none) "none"	Replaces lining or old style figures with inferior figures (smaller glyphs which sit lower than the standard baseline, primarily for chemical or mathematical notation). May also replace lowercase characters with alphabetic inferiors.	Replaces lining or old style figures with inferior figures (smaller glyphs which sit lower than the standard baseline, primarily for chemical or mathema tical notation). May also replace lowercase characters with alphabeti c inferiors.	Replaces lining or old style figures with inferior figures (smaller glyphs which sit lower than the standard baseline, primarily for chemical or mathema tical notation). May also replace lowercase characters with alphabeti c inferiors.
OT_ITALICS_FEATURE (true false none) "none"	Some fonts (such as Adobe® Pro Japanese fonts) have both Roman and Italic forms of some	Some fonts (such as Adobe	Some fonts (such as Adobe

Element type	Construct	Modify	Deconstr uct
	characters in a single font.	Pro	Pro
	This feature replaces the	Japanese	Japanese
	Roman glyphs with the	fonts)	fonts)
	corresponding Italic	l '	have both
	glyphs.	Roman	Roman
	071	and Italic	and Italic
		forms of	forms of
		some	some
		characters	characters
		in a	in a
		single	single
		font. This	font. This
		feature	feature
		replaces	replaces
		the	the
		Roman	Roman
		glyphs	glyphs
		with the	with the
		correspon	_
		ding Italic	ding Italic
		glyphs.	glyphs.
		Apply	Apply
		specially	specially
		designed	designed
		horizonta	horizonta
		l or	l or
		vertical	vertical
	Apply specially designed	Kana	Kana
OT_HVKANA_ALTERNATES (true false none)	horizontal or vertical Kana	forms	forms
"none"	forms that correspond with	l	that
	the story direction (vertical	correspon	correspon
	or horizontal).	d with	d with
		the story direction	the story direction
		(vertical	(vertical
		or	or
		horizonta	horizonta
		1).	1).
	Japanese transcetting after		
	Japanese typesetting often	Japanese	Japanese
	uses smaller kana glyphs, generally in superscripted	typesettin	* *
	form, to clarify the	g often uses	g often uses
OT_RUBINOTATION_FORMS (true false none) "none"	meaning of kanji which	smaller	smaller
	may be unfamiliar to the	kana	kana
	reader. These are called	glyphs,	glyphs,
	ruby, from the old	generally	generally
	typesetting term for four-	in	in
	point-sized type. This	superscrip	
	Ponit sized type. Tills	Juperscrip	Juperscrip

Element type	Construct	Modify	Deconstr uct
		ted form,	ted form,
		to clarify	to clarify
		the	the
	feature identifies glyphs in	meaning	meaning
	the font which have been	of kanji	of kanji
	designed for this use,	which	which
	substituting them for the	may be	may be
	default designs.	unfamilia	unfamilia
		r to the	r to the
		reader.	reader.
		These are	These are
		called	called
		ruby,	ruby,
		from the	from the
		old	old
		typesettin	typesettin
			g term for
		_	four-
		point-size	point-size
		d type.	d type.
		This	This
		feature	feature
		identifies	identifies
		glyphs in	glyphs in
		the font	the font
		which	which
		have	have
		been	been
		designed	designed
			for this
		use,	use,
		substituti	substituti
		ng them	ng them
		for the	for the
		default	default
		designs.	designs.
		Replace	Replace
		default	default
OT LOCALIZED FORMS (true folso more)	Replace default forms of	forms of	forms of
OT_LOCALIZED_FORMS (true false none) "none"	glyphs with localized	glyphs	glyphs
Hone	forms.	with	with
		localized	localized
		forms.	forms.
		Apply	Apply
OT_ALTERNATE_WIDTHS_NONE (true false none) "none"	Apply alternate widths for	alternate	alternate
	heights based on story	widths	widths
	direction (vertical or horizontal).	for	for
		heights	heights
		J -	J -

Element type	Construct	Modify	Deconstr
		based on	uct based on
		story	story
		direction	direction
		(vertical	(vertical
		or	or
		horizonta	
		1).	1).
		Replace	Replace
		glyphs set	
		on other	on other
		em	em
	Replace glyphs set on other	widths	widths
OT_FULL_WIDTHS (true false none) "none"	em widths with glyphs set	with	with
	on full-em widths.	glyphs set	glyphs set
		on full-	on full-
		em	em
		widths.	widths.
		Replace	Replace
		glyphs set	glyphs set
	Replace glyphs set on other	on other	on other
OT_HALF_WIDTHS (true false none) "none"	em widths with half-em	em	em
O'_TIALI_viD'III3 (true raise florie) florie	width glyphs.	widths	widths
		with half-	with half-
		em width	em width
		glyphs.	glyphs.
		Replace	Replace
		glyphs set	
		on other	on other
	Replace glyphs set on other	em	em
OT_THIRD_WIDTHS (true false none)	em widths with glyphs set	widths	widths
"none"	on third-em widths.	with	with
		1	glyphs set
		on third-	on third-
		em widths.	em widths.
		Replace	Replace
		glyphs set	
		on other	on other
		em	em
	Replace glyphs set on other	widths	widths
OT_QUARTER_WIDTHS (true false none)	em widths with glyphs set	with	with
"none"	on quarter-em widths.	glyphs set	
	1	on	on
		quarter-	quarter-
		em	em
		widths.	widths.
OT_PROPORTIONAL_WIDTHS (true false	Fit glyphs to individual,	Fit glyphs	Fit glyphs
none) "none"	proportional widths.	to	to
,	r · r · · · · · · · · · · · · · · · · ·		

Element type	Construct	Modify	Deconstr uct
		individua	individua
		l, proportio nal	l, proportio nal
		widths. Center	widths. Center
OT_ALTVERTMETRICS (true false none) "none"	Center glyphs inside a fullem height.	glyphs inside a full-em height.	glyphs inside a full-em height.
OT_PROPORTIONAL_ALTVERTMETRICS (true false none) "none"	Fit glyphs to individual, proportional heights.	Fit glyphs to individua l, proportio nal	Fit glyphs to individua l, proportio nal
OT_ALTERNATE_HALF_METRICS (true false none) "none"	Fit full-em height glyphs to half-em heights.	heights. Fit full- em height glyphs to half-em heights.	heights. Fit full- em height glyphs to half-em heights.
OT_ALTERNATE_FORMS_NONE (true false none) "none"OT_JIS78FORMS (true false none) "none"OT_JIS83FORMS (true false none) "none"OT_JIS90FORMS (true false none) "none"OT_JIS04FORMS (true false none) "none"OT_SIMPLIFIED_FORMS (true false none) "none"OT_TRADITIONAL_FORMS (true false none) "none" (true false none) "none"	Alternate glyph forms, such as JIS2004, JIS78, JIS90, Simplified, and Traditional. These glyph forms are specially designed for some Japanese OpenType fonts.	Alternate glyph forms, such as JIS2004, JIS78, JIS90, Simplified , and Tradition al. These glyph forms are specially designed for some Japanese OpenTyp e fonts.	Alternate glyph forms, such as JIS2004, JIS78, JIS90, Simplified , and Tradition al. These glyph forms are specially designed for some Japanese OpenTyp e fonts.
LANGUAGE (SwissGerman SwissGermanReformed BrazilianPortuguese Bulgarian Croatian Czech Dutch Danish Finnish French German ReformedGerman Hungarian Greek Italian BokmalNorwegian Portuguese Polish Slovak Russian	Specifies the dictionary preference used for hyphenation.	Specifies the dictionar y preferenc e used for	Identifies the dictionar y preferenc e used for

Element type	Construct	Modify	Deconstr uct
Romanian Swedish Turkish Spanish USEnglish Catalan Estonian Lithuanian Latvian Icelandic Slovenian InternationalEnglish SimplifiedChinese TraditionalChinese Japanese Korean Ukrainian NynorskNorwegian None none) "none"		hyphenat ion.	hyphenat ion.
SENDING CDATA #IMPLIED	Sending is a character spacing attribute used particularly in East Asian typography, similar to kerning, but applicable as a fixed value over a range of text.	Asian typograp hy, similar to kerning, but applicable as a fixed value over a range of text.	ly in East Asian typograp hy, similar to kerning, but applicable as a fixed value over a range of text.
APPLYSENDINGTONONCJK (true false none) "none"	Describes whether sending should be applied to both Roman and Chinese/Japanese/Korean glyphs (true) or just to Chinese, Japanese, and Korean Glyphs (false).	should be	Describes whether sending should be applied to both Roman and Chinese/J apanese/ Korean glyphs (true) or just to Chinese, Japanese, and Korean Glyphs (false).
UEGGLYPHID CDATA #IMPLIED	Unencoded Glyphs	Some	Some

Element type	Construct	Modify	Deconstr uct
	(UEG)Some glyphs,	glyphs,	glyphs,
	especially in legacy Korean	especially	especially
	documents, are not covered	in legacy	in legacy
	by the Unicode	Korean	Korean
	specification. These are	documen	documen
	referred to as UEG or	ts, are not	ts, are not
	Unencoded Glyphs. This	covered	covered
	attribute represents the	by the	by the
	font glyph ID for such	Unicode	Unicode
	characters that cannot be	specificati	specificati
	represented. Note that this	on. These	on. These
	is an empty element, as the	are	are
	glyph cannot be	referred	referred
	represented as text.	to as UEG	to as UEG
		or	or
		Unencod	Unencod
		ed	ed
		Glyphs.	Glyphs.
		This	This
		attribute	attribute
		represents	represents
		the font	the font
		glyph ID	glyph ID
		for such	for such
		characters	characters
		that	that
		cannot be	cannot be
		represent	represent
		ed. Note	ed. Note
		that this	that this
		is an	is an
		empty	empty
		element,	element,
		as the	as the
		glyph	glyph
			cannot be
		l	represent
		_	ed as text.
		Specifies	Specifies
		which	which
		variant to	variant to
	Specifies which variant to	use from	use from
	use from among the	among	among
OTVARIANT CDATA #IMPLIED	multiple match found (if	the	the
	any).	multiple	multiple
	· · · //·	match	match
		found (if	found (if
		any).	any).
	l .		

Element type	Construct	Modify	Deconstr uct
OTFEATURE CDATA #IMPLIED	Contains the value of the OpenType feature applied on text like AlternateFractions (afrc), AlternateAnnotations, etc.	Contains the value of the OpenTyp e feature applied on text like Alternate Fractions (afrc), Alternate Annotati ons, etc.	Contains the value of the OpenTyp e feature applied on text like Alternate Fractions (afrc), Alternate Annotati ons, etc.
SCRIPT (Hira Hani Hrkt Hang Yiii Kana Bopo none) "none"	Represents the script system used by this <richtext> element's content.</richtext>	Represent s the script system used by this <richte xt=""> element's content.</richte>	Represent s the script system used by this <richte xt=""> element's content.</richte>
HALFWIDTHUPRIGHT (true false none) "none"	Specifies whether this character should be presented upright in a vertical story. This is specifically applicable to Roman characters within a vertical story.	Specifies whether this character should be presented upright in a vertical story. This is specificall y applicable to Roman	Specifies whether this character should be presented upright in a vertical story. This is specificall y applicable to Roman characters within a vertical story.
FAUXSTYLE (BOLD ITALIC BOLDITALIC NONE) #IMPLIED	Not applicable.	Not applicable	Indicates whether the text contains a faux type style

Element type	Construct	Modify	Deconstr uct
PAGENUMBERCHAR (CURRENTPAGE NEXTPAGE PREVIOUSPAGE) #IMPLIED	Represents an automatic page number character. If a RICHTEXT element with this attribute occurs in a section, section-specific numbering and formatting is applied to the page number. For more information, see "Working with sections."	Represent s an automatic page number character. If a RICHTEX T element with this attribute occurs in a section, section- specific numberin g and formattin g is applied to the page number. For more informati on, see "Working with	(such as a bold face that is construct ed by software, as opposed to a bold font). Represent s an automatic page number character.
HYPERLINKREF CDATA #IMPLIED	Not applicable.	Not applicable .	Specifies that this <richte xt=""> element is a hyperlink by referring to a</richte>

Element type	Construct	Modify	Deconstr uct
			HYPERLI NK. Specifies the type
HLTYPE (WWWURL PAGE ANCHOR) #IMPLIED	Not applicable.	Not applicable	of hyperlink this <richte xt=""> element hyperlink s to. Options include WWWUR L (a URL on the Web), PAGE (the top of a page in the same layout), and ANCHOR (an anchor).</richte>
HLANCHORREF CDATA #IMPLIED	Not applicable.	Not applicable	If this <richte xt=""> element is a hyperlink of the HLTYPE ANCHOR , this attribute identifies the anchor by name.</richte>
BACKGROUNDCOLOR CDATA #IMPLIED	Specifies a background color to be inserted behind the text. This color displays only in rendered output, and is not saved with the	Specifies a backgrou nd color to be inserted	Not applicable

MODIFIER SCHEMA (ANNOTATED)

Element type	Construct	Modify	Deconstr uct
		behind	
		the text.	
	project file.	This color	
	Project me.	displays	
		only in	
		rendered	
		output,	
		and is not	
		saved	
		with the	
		project	
		file.	

RIGHT (Modifier schema)

Elem ent type	Construct	Modify	Deconstruct
RIG HT (#PC DAT A)	RIGHT element typeThe distance between the box or lines right edge and the right edge of the page, in points.	box or lines right edge and the right edge of the page,	The distance between the box or lines right edge and the right edge of the page, in points.

RIGHTCONTROLPOINT (Modifier schema)

El e m en t ty	Construct	Modify	Deconstruct
RI	RIGHTCONTROLPOINT element	Each point on a curve is	Each point on a curve is
G	typeEach point on a curve is	described by three geometric	described by three geometric
Н	described by three geometric	positions: the x,y coordinate	positions: the x,y coordinate
Т	positions: the x,y coordinate of	of the vertex point (this	of the vertex point (this
С	the vertex point (this coordinate	coordinate is relative to the	coordinate is relative to the
0	is relative to the bounding	bounding geometry of the	bounding geometry of the
N	geometry of the shape, not the	shape, not the page), and the	shape, not the page), and the
Т	page), and the left and right	left and right control	left and right control
R	control handles–as you would	handles–as you would see	handles–as you would see
0	see onscreen in the QuarkXPress	onscreen in the QuarkXPress	onscreen in the QuarkXPress
LP	user environment. For more	user environment. For more	user environment. For more
OI	information on drawing and	information on drawing and	information on drawing and
N	manipulating bezier curves,	manipulating bezier curves,	manipulating bezier curves,

El			
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m			-
en	Construct	Modify	Deconstruct
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pe			
T			
(e	mlana ana A Corida ta	mlana an A Codda ta	mlanan ana A Carida ta
m	please see A Guide to	please see A Guide to	please see A Guide to
pt	QuarkXPress.	QuarkXPress.	QuarkXPress.
y)			
	ributes		
X			
C			
D			
A			
Т			
A	X coordinate of	X coordinate of	X coordinate of
#I	RIGHTCONTROLPOINT.	RIGHTCONTROLPOINT.	RIGHTCONTROLPOINT.
M			
PL			
1			
IE			
D			
Y			
С			
D			
A			
Т	V accordinate of	V co andinate of	V accordinate of
Α	Y coordinate of	Y coordinate of	Y coordinate of
#I	RIGHTCONTROLPOINT.	RIGHTCONTROLPOINT.	RIGHTCONTROLPOINT.
M			
PL			
IE			
D			
\Box			

RIGHTGRID (Modifier schema)

Elemen t type	Construct	Modify	D ec o ns tr uc t
1	RIGHTGRID element typeDescribes a grid line on the right edge of a cell in an <inlinetable>.</inlinetable>	Describes a grid line on the right edge of a cell in an <inlinetable>.</inlinetable>	N ot ap pli

			Б	
			D	
			ec	
Elemen			0	
t type	Construct	Modify	ns	
7.1			tr	
			uc	
			t	
			ca	
			bl	
			e.	
Attribute	28			
TYPE			N	
(TOP			ot	
LEFT			ap	
ВОТТО	Specifies the location of the grid line.	Specifies the location of the grid line.	pli	
M	specifies the location of the grid line.	specifies the location of the grid line.	ca	
RIGHT)			bl	
#IMPLI			1 1	
ED			e.	
	Identification TADIFCTVIE, that states	Identification TADI PCTVI F. that states	N	
CTVIE	Identifies the <tablestyle> that styles</tablestyle>	Identifies the <tablestyle> that styles</tablestyle>	ot	
STYLE		this grid line. If you specify this value, you	ap	
CDATA	do not have to specify the remaining	do not have to specify the remaining	pli	
#IMPLI	attributes. If you specify the remaining	attributes. If you specify the remaining	ca	
ED	attributes, those attribute values override	attributes, those attribute values override	bl	
	the corresponding <tablestyle> values.</tablestyle>	the corresponding <tablestyle> values.</tablestyle>	e.	
			N	
			ot	
WIDTH			ар	
CDATA	Specifies the width of the grid line in	Specifies the width of the grid line in	pli	
#IMPLI	points.	points.	ca	
ED				
			e. N	
			ot	
COLOR			ap	
CDATA	Specifies the color of the grid line.	Specifies the color of the grid line.	pli	
#IMPLI	opecines the color of the grid line.	opecines the color of the grid line.	ca	
ED			bl	
			e.	
			N	
			1 1	
SHADE			ot	
CDATA	Specificatho shado of the amid line	Specificatho shado of the amid line	ap	
#IMPLI	Specifies the shade of the grid line.	Specifies the shade of the grid line.	pli	
ED			ca	
			bl	
			e.	
OPACIT			N	
Y	Specifies the opacity of the grid line.	Specifies the opacity of the grid line.	ot	
CDATA			ap	
			لثــا	

			D
			ec
			0
Elemen	Construct	Modify	ns
t type	Construct	l'iodily	tr
			uc
			t
			pli
#IMPLI			ca
ED			bl
			e.
			N
GAPCO			ot
LOR	Specifies the color of the gap (if any)	Specifies the color of the gap (if any)	ap
CDATA	between the lines that make up the grid	between the lines that make up the grid	pli
#IMPLI	line.	line.	ca
ED			bl
			e.
			N
GAPSH			ot
ADE	Specifies the shade of the gap (if any)	Specifies the shade of the gap (if any)	ap
CDATA	between the lines that make up the grid	between the lines that make up the grid	pli
#IMPLI	line.	line.	ca
ED			bl
			e.
			N
GAPOP			ot
ACITY	Specifies the opacity of the gap (if any)	Specifies the opacity of the gap (if any)	ap
CDATA	between the lines that make up the grid	between the lines that make up the grid	pli
#IMPLI	line.	line.	ca
ED			bl
			e.

ROW (Modifier schema)

El e m en t ty	Construct	Modify	Deconstruct
1((ROW element typeDescribes a row in a table.	Describes a row in a table.	Describes a row in a table.

TI.			
El			
e			
m			
en	Construct	Modify	Deconstruct
t		Í	
ty			
pe			
G			
RI			
D			
$ _{\mathrm{LI}}$			
N			
1			
E)			
*)			
Att	ributes		
R			
0			
W			
C			
1			
О			
U			Specifies the index position
N	Specifies the index position of a	Specifies the index position of a	-
Т	row from top to bottom. For	row from top to bottom. For	of a row from top to
C	example, ROWCOUNT = 1	example, ROWCOUNT = 1	bottom. For example,
D	indicates the first row from the	indicates the first column from	ROWCOUNT = 1 indicates
1			the first column from the
	top, and ROWCOUNT = 2	the top, and ROWCOUNT = 2	top, and ROWCOUNT = 2
T	indicates the second row from	indicates the second row from	indicates the second
A	the top.	the top.	column from the top.
#R			column from the top.
E			
Q			
UI			
RE			
D			
R			
0			
1	Specifies the height of a	Specifies the height of a	
W	row.Note: If this attribute is	row.Note: If this attribute is	
Н	empty, the row is resized to fit	empty, the row is resized to fit	
EI	= -	= :	
G	its contents, unless RICHTEXT@	its contents, unless RICHTEXT@	
Н	MAINTAINGEOMETRY is set to	MAINTAINGEOMETRY is set to	
T	true, in which case any row that	true, in which case any row that	
	does not have a ROWHEIGHT	does not have a ROWHEIGHT	Specifies the height a row.
С	attribute will be sized equally	attribute will be sized equally	
D	using the amount of space	using the amount of space	
A	_		
Т	remaining after all the specified	remaining after all the specified	
A	ROWHEIGHT attributes have	ROWHEIGHT attributes have	
#I	been subtracted from the total	been subtracted from the total	
	height of the box.	height of the box.	
M			
PL			
$\overline{}$		<u>L</u>	

El			
e			
m			
en	Construct	Modify	Deconstruct
t			
ty			
pe			
IE			
$ _{\rm D}$			
С			
O			Identifies the color of a
L		Identifies the color of a row.	row. Overrides the
O	Identifies the color of a row.	Overrides the TABLE@COLOR	TABLE@COLOR
R	Overrides the TABLE@COLOR		attribute.Note: Only the
1		attribute.Note: Only the name	name of a color is included
C	attribute.Note: Only the name	of a color is included in this	in this attribute. The
D	of a color is included in this	attribute. The definition of the	definition of the color is
A	attribute. The definition of the	color is stored in the projects Job	stored in the projects Job
T	color is stored in the projects	Jackets file or defined using the	Jackets file or defined using
A	Job Jackets file or defined using	Document Controls submenu in	the Document Controls
#I	the Document Controls	QuarkXPress Server, or an	submenu in QuarkXPress
M	submenu in QuarkXPress Server.	existing color created and saved	Server, or an existing color
PL		in the project.	created and saved in the
IE			project.
D			project.
S			
Н			
A			
D			
E			
C			
D	Specifies the shade of the color	Specifies the shade of the color	Specifies the shade of the
Α	applied to a row, as an integer	applied to a row, as an integer	color applied to a row, as
Т	percentage from 0 to 100.	percentage from 0 to 100.	an integer percentage from
A			0 to 100.
 #I			
M			
PL			
IE			
D			
\vdash			
О			
PA			
CI			
Т	Specifies the opacity of the color	Specifies the opacity of the color	Specifies the opacity of the
Y	applied to a row, specified as an	applied to a row, specified as an	color applied to a row,
С			**
D	integer percentage from 0 to	integer percentage from 0 to	specified as an integer
Α	100.	100.	percentage from 0 to 100.
Т			
Α			
#I			

El			
e			
m		26.116	B
en	Construct	Modify	Deconstruct
t			
ty			
pe			
M			
PL			
IE			
D			
M			
ER			
G			
ER			
О			
W			
SP			
A			
N			If a table includes merged
C	Attribute used for merging cells	Attribute used for merging cells	cells, then the
D	and rows.	and rows.	MERGECOLSPAN value is
A			shown in the xml output.
T			
A			
#I			
M			
PL			
IE			
D			
SP			
LI			
T			
1			
(tr			
ue			
 fo1		Attribute used for colitting re	
fal	Not applicable.	Attribute used for splitting rows	Not applicable.
se		and columns.	
[],			
#I			
M			
PL			
IE			
D			
Α			
U	Smarth and the state	Smarth as rule (1) or (1)	Const. Consult of the conf.
Т	Specifies whether the rows or	Specifies whether the rows or	Specifies whether the rows
О	columns will adjust size to fit	columns will adjust size to fit	or columns will adjust size
FI	the content.	the content.	to fit the content.
Т			

El			
e			
m			
en	Construct	Modify	Deconstruct
t			
ty			
pe			
(tr			
ue			
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se			
n l			
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ne			
) "			
"n			
О			
ne "			
A			
U			
Т			
О			
FI			
Т			
M			
A			
X			
LI			
M	May limit for out of	May limit for out of	May limit for set of
IT	Max limit for autofit.	Max limit for autofit.	Max limit for autofit.
С			
D			
A			
T			
A			
#I			
M			
PL			
IE			
D			

RUBI (Modifier schema)

Element type	Construct	Modify	Deconstruct
RUBI	RUBI element typeSpecifies a	Specifies a region of base	Specifies a region of base

Element type	Construct	Modify	Deconstruct
(RUBITEX	region of base text and the	text and the rubi text to	text and the rubi text to
T,	rubi text to include with that	include with that text.	include with that text.
(RICHTEX	text. Note the second and	Note the second and	Note the second and
T	subsequent children of the	subsequent children of the	subsequent children of the
ANCHORE	RUBI element (RICHTEXT	RUBI element (RICHTEXT	RUBI element (RICHTEXT
DBOXREF	ANCHOREDBOX HIDDEN	ANCHOREDBOX HIDDEN	ANCHOREDBOX HIDDEN
HIDDEN	CALLOUTANCHOR	CALLOUTANCHOR	CALLOUTANCHOR
	INLINEBOX	INLINEBOX	INLINEBOX
CALLOUT	MATHEQUATION)+ declare	MATHEQUATION)+ declare	MATHEQUATION)+ declare
ANCHOR	the base text to which the	the base text to which the	the base text to which the
INLINEBO	rubi text is to be applied.	rubi text is to be applied.	rubi text is to be applied.
X			
MATHEQ			
UATION)+			
)			

RUBITEXT (Modifier schema)

Element type	Construct	Modify	Deconstruct
RUBITEXT (RICHTEXT)	RUBITEXT element typeSpecifies the rubi text to be applied to the specified base text.The RUBITEXT element is a container for a RICHTEXT element. All the usual character formatting attributes can be applied to the rubi text through this RICHTEXT element.	Specifies the rubi text to be applied to the specified base text. The RUBITEXT element is a container for a RICHTEXT element. All the usual character formatting attributes can be applied to the rubi text through this RICHTEXT element.	Specifies the rubi text to be applied to the specified base text. The RUBITEXT element is a container for a RICHTEXT element. All the usual character formatting attributes can be applied to the rubi text through this RICHTEXT element.
Attributes			
ALIGNMENT (LEFT TOP CENTERED RIGHT BOTTOM JUSTIFIED FORCED ONETOONE EQUALSPACE ONERUBISPAC E) "CENTERED"	Controls how non- overhanging rubi text aligns with the base text. For more information, see "Rubi alignment options" in the QuarkXPress documentation.	Controls how non- overhanging rubi text aligns with the base text. For more information, see "Rubi alignment options" in the QuarkXPress documentation.	Controls how non- overhanging rubi text aligns with the base text. For more information, see "Rubi alignment options" in the QuarkXPress documentation.
OVERHANGAL IGNMENT (none LEFT TOP	Defines how far the rubi text can overhang base text that is unrelated to the rubi text. For more information,	Defines how far the rubi text can overhang base text that is unrelated to the rubi text. For more	Defines how far the rubi text can overhang base text that is unrelated to the rubi text. For more

Element type	Construct	Modify	Deconstruct
CENTERED			
RIGHT	see "Rubi overhang	information, see "Rubi	information, see "Rubi
BOTTOM	options."	overhang options."	overhang options."
JUSTIFIED	options.	overnang options.	overnang options.
FORCED			
ONETOONE			
EQUALSPACE)			
"none"			
Home		This attribute specifies	This attribute specifies
	This attribute specifies	whether rubi text	whether rubi text
PLACEMENT	whether rubi text displays	displays above or below	displays above or below
(ABOVE	above or below the base text	the base text (in a	the base text (in a
BELOW	(in a horizontal story) or to	horizontal story) or to	horizontal story) or to
RIGHT LEFT)	the left of or right of the	the left of or right of the	the left of or right of the
"ABOVE"	base text (in a vertical	base text (in a vertical	base text (in a vertical
	story).	``	story).
	Defines the size of the rubi	story). Defines the size of the	Defines the size of the
RELATIVESIZE			
CDATA "50"	text compared to the base	rubi text compared to the base text.	rubi text compared to the base text.
	text.		
OFFICET OF ATA	Use this attribute to control	Use this attribute to	Use this attribute to
OFFSET CDATA	how far the rubi text is	control how far the rubi	control how far the rubi
1.0.	offset from the base text.	text is offset from the	text is offset from the
OMEDITANO		base text.	base text.
OVERHANG	Defends her for the sule	Deferred to the solt	D.C. and by Contlant
(none	Defines how far the rubi	Defines how far the rubi	Defines how far the rubi
UNRESTRICTE	text can overhang base text	text can overhang base	text can overhang base
D HALFRUBI	that is unrelated to the rubi	text that is unrelated to	text that is unrelated to
FULLRUBI	text. For more information,	the rubi text. For more	the rubi text. For more
HALFBASE	see "Rubi overhang	information, see "Rubi	information, see "Rubi
FULLBASE)	options."	overhang options."	overhang options."
"HALFRUBI"			
	Automatically aligns rubi	Automatically aligns rubi	Automatically aligns rubi
AUTOALIGNA	text with the border of a	text with the border of a	text with the border of a
TLINEEDGES	text box when the rubi text	text box when the rubi	text box when the rubi
(true false)	overhangs the base text and	text overhangs the base	text overhangs the base
"true"	touches the edge of the text	text and touches the edge	text and touches the edge
	box.	of the text box.	of the text box.
	Applicable for OT fonts	Applicable for OT fonts	Applicable for OT fonts
ANNONATION	applied to rubi. If the font	applied to rubi. If the	applied to rubi. If the
S (true false)	supports annotations, then	font supports	font supports
"true"	that is applied on the rubi	annotations, then that is	annotations, then that is
	text.	applied on the rubi text.	applied on the rubi text.

RULE (Modifier schema)

Ele			
men			
t	Construct	Modify	Deconstruct
type			
RUL	DIVID 1		
E	RULE element typeDescribes a	Describes a rule above or	Describes a rule above or
(em	rule above or below a	below a paragraph.	below a paragraph.
pty)	paragraph.		
Attrib	outes		
ENA			
BLE			
D			
(tru			
e	Specifies whether to add a rule	Specifies whether to add a rule	Specifies whether a rule is
false	to a paragraph or not.	to a paragraph or not.	applied to a paragraph or not.
	to a paragrapii oi iiot.	to a paragrapii oi iiot.	applied to a palagraph of 110t.
non			
e)			
"no			
ne"			
POS			
ITI			
ON			
(AB			
OV	Specifies whether a rule	Specifies whether a rule	
E	should be above or below a	should be above or below a	Specifies whether a rule is
BEL	paragraph.	paragraph.	above or below a paragraph.
OW	L	F	
)			
"BE			
LO			
W"			
LEN			
GT			
H	Specifies the length of a	Specifies the length of a	Specifies the length of a
(TE	rule.TEXT = Rule is the same	rule.TEXT = Rule is the same	rule.TEXT = Rule is the same
XT	length as the first line of text	length as the first line of text	length as the first line of text
CO	in the paragraph (for rule	in the paragraph (for rule	in the paragraph (for rule
LU	above) or the last line of text	above) or the last line of text	above) or the last line of text
MN	in the paragraph (for rule	in the paragraph (for rule	in the paragraph (for rule
	below).COLUMN = Rule	below).COLUMN = Rule	below).COLUMN = Rule
IND ENT	extends to edges of parent box	extends to edges of parent box	extends to edges of parent box
1 1	or column.INDENTS = Rule	or column.INDENTS = Rule	or column.INDENTS = Rule
S) "IN	extends from the paragraph's	extends from the paragraph's	extends from the paragraph's
DE	left indent to its right indent.	left indent to its right indent.	left indent to its right indent.
NTS			
N13			

Ele			
men	Construct	Modify	Deconstruct
t	Construct	Wiodify	Deconstruct
type			
LEF T CD ATA #IM PLIE D	Specifies a distance to indent a rule farther from the left. A positive number moves the end-point to the right; a negative number moves the end-point to the left.	Specifies a distance to indent a rule farther from the left. A positive number moves the end-point to the right; a negative number moves the end-point to the left.	Specifies a distance a rule is indented farther from the left. A positive number moves the end-point to the right; a negative number moves the end-point to the left.
RIG HT CD ATA #IM PLIE D	Specifies a distance to indent a rule farther from the right. A positive number moves the end-point to the left; a negative number moves the end-point to the right.	Specifies a distance to indent a rule farther from the right. A positive number moves the end-point to the left; a negative number moves the end-point to the right.	Specifies a distance a rule is indented farther from the right. A positive number moves the end-point to the left; a negative number moves the end-point to the right.
OFF SET CD ATA #IM PLIE D	Specifies the amount of space between a rule and the paragraph to which it is attached.	Specifies the amount of space between a rule and the paragraph to which it is attached.	Specifies the amount of space between a rule and the paragraph to which it is attached.
1	Specifies the thickness of a rule.	Specifies the thickness of a rule.	Specifies the thickness of a rule.
LOR CD ATA #IM	Identifies the color for a rule.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server.	Identifies the color for a rule.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server, or an existing color created and saved in the project.	Identifies the color for a rule.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server, or an existing color created and saved in the project.
SHA DE CD ATA #IM PLIE	Specifies the shade of a rules color, as an integer percentage from 0 to 100.	Specifies the shade of a rules color, as an integer percentage from 0 to 100.	Specifies the shade of a rules color, as an integer percentage from 0 to 100.

Ele men t type	Construct	Modify	Deconstruct
D			
OPA			
CIT			
Y	Second the second terror of a second		
CD	Specifies the opacity of a rules	Specifies the opacity of a rules	Specifies the opacity of a rules
ATA	color, specified as an integer	color, specified as an integer	color, specified as an integer
#IM	percentage from 0 to 100.	percentage from 0 to 100.	percentage from 0 to 100.
PLIE			
D			
	Identifies a Dashes & Stripes	Identifies a Dashes & Stripes	Identifies a Dashes & Stripes
	style (LINESTYLE) for a	style (LINESTYLE) for a	style (LINESTYLE) for a
STY	rule.Note: Only the name of a	rule.Note: Only the name of a	rule.Note: Only the name of a
LE	Dashes & Stripes style is	Dashes & Stripes style is	Dashes & Stripes style is
CD	included in this attribute. The	included in this attribute. The	included in this attribute. The
ATA	definition of the Dashes &	definition of the Dashes &	definition of the Dashes &
#IM	Stripes style is stored in the	Stripes style is stored in the	Stripes style is stored in the
PLIE	projects Job Jackets file or	projects Job Jackets file or	projects Job Jackets file or
D	defined using the Document	defined using the Document	defined using the Document
	Controls submenu in	Controls submenu in	Controls submenu in
	QuarkXPress Server.	QuarkXPress Server.	QuarkXPress Server.

RUNAROUND (Modifier schema)

Elem			
ent	Construct	Modify	Deconstruct
type			
RUN			
ARO	RUNAROUND element	Describes a runaround	Describes a runaround
UND	typeDescribes a runaround	applied to a box or line.	applied to a box or line.
(emp	applied to a box or line.	applied to a box of file.	applied to a box of life.
ty)			
Attrib	utes		
TYPE	Specifies the type of	Specifies the type of	Specifies the type of
(NO	runaround applied to a box or	runaround applied to a box or	runaround applied to a box or
NE	line:NONE = Text runs behind	line:NONE = Text runs behind	line:NONE = Text runs behind
ITEM	the box or line.ITEM = Text	the box or line.ITEM = Text	the box or line.ITEM = Text
	runs around the edges of the	runs around the edges of the	runs around the edges of the
EMB	box or line.EMBEDDEDPATH	box or line.EMBEDDEDPATH	box or line.EMBEDDEDPATH
EDD	= Text runs around a path	= Text runs around a path	= Text runs around a path
EDP	embedded in the picture	embedded in the picture	embedded in the picture
ATH	file.ALPHACHANNEL = Text	file.ALPHACHANNEL = Text	file.ALPHACHANNEL = Text
	runs around an alpha channel	runs around an alpha channel	runs around an alpha channel
ALP	embedded in the picture	embedded in the picture	embedded in the picture
HAC	file.NONWHITEAREAS = Text	file.NONWHITEAREAS = Text	file.NONWHITEAREAS = Text
HAN	runs around a path based on	runs around a path based on	runs around a path based on

Elem			
ent	Construct	Modify	Deconstruct
type		,	
NEL	the dark and light areas of the	the dark and light areas of the	the dark and light areas of the
NON	picture file. See the	picture file. See the	picture file. See the
WHI	THRESHOLD	THRESHOLD	THRESHOLD
TEAR	attribute.PICTUREBOUNDS =	attribute.PICTUREBOUNDS =	attribute.PICTUREBOUNDS =
EAS	Text runs around the	Text runs around the	Text runs around the
PICT	rectangular canvas area of the	rectangular canvas area of the	rectangular canvas area of the
URE	picture, regardless of the size	picture, regardless of the size	picture, regardless of the size
BOU	and shape of the picture	and shape of the picture	and shape of the picture
NDS	box.SAMEASCLIPPING = Text	box.SAMEASCLIPPING = Text	box.SAMEASCLIPPING = Text
	runs around the pictures	runs around the pictures	runs around the pictures
SAM	clipping path, if	clipping path, if	clipping path, if
EASC	,	any.AUTOIMAGE = Text runs	any.AUTOIMAGE = Text runs
LIPPI	11 01	around a clipping path	around a clipping path
NG	created based on the dark and	created based on the dark and	created based on the dark and
AUT	light areas in the picture file.	light areas in the picture file.	light areas in the picture file.
OIM	See the THRESHOLD	See the THRESHOLD	See the THRESHOLD
AGE	attribute.	attribute.	attribute.
 } }			
MAN			
UAL) "NO			
NE"			
INL	Valid when	Valid when	Valid when
	RUNAROUND@TYPE = ITEM	RUNAROUND@TYPE = ITEM	RUNAROUND@TYPE = ITEM
TOP	or PICTUREBOUNDS. Moves	or PICTUREBOUNDS. Moves	or PICTUREBOUNDS. Moves
CDA	the top edge of the	the top edge of the	the top edge of the
TA	runaround by the specified	runaround by the specified	runaround by the specified
#IMP	number of points	number of points	number of points
LIED	(positive=up,	(positive=up,	(positive=up,
	negative=down).	negative=down).	negative=down).
DIC	Valid when	Valid when	Valid when
RIG	RUNAROUND@TYPE = ITEM	RUNAROUND@TYPE = ITEM	RUNAROUND@TYPE = ITEM
HT CDA	or PICTUREBOUNDS. Moves	or PICTUREBOUNDS. Moves	or PICTUREBOUNDS. Moves
TA	the right edge of the	the right edge of the	the right edge of the
#IMP	runaround by the specified	runaround by the specified	runaround by the specified
LIED	number of points	number of points	number of points
	(positive=right, negative=left).	(positive=right, negative=left).	(positive=right, negative=left).
	Valid when	Valid when	Valid when
LEFT	RUNAROUND@TYPE = ITEM	RUNAROUND@TYPE = ITEM	RUNAROUND@TYPE = ITEM
CDA	or PICTUREBOUNDS. Moves	or PICTUREBOUNDS. Moves	or PICTUREBOUNDS. Moves
TA	the left edge of the runaround	the left edge of the runaround	l
#IMP	by the specified number of	by the specified number of	by the specified number of
LIED	points (positive=left,	points (positive=left,	points (positive=left,
	negative=right).	negative=right).	negative=right).
ВОТ	Valid when	Valid when	Valid when
TOM	RUNAROUND@TYPE = ITEM	RUNAROUND@TYPE = ITEM	RUNAROUND@TYPE = ITEM
CDA	or PICTUREBOUNDS. Moves	or PICTUREBOUNDS. Moves	or PICTUREBOUNDS. Moves
		.	

Elem			
ent	Construct	Modify	Deconstruct
type			
TA	the bottom edge of the	the bottom edge of the	the bottom edge of the
#IMP	runaround by the specified	runaround by the specified	runaround by the specified
LIED	number of points	number of points	number of points
LIED	(positive=down,	(positive=down,	(positive=down,
	negative=up).	negative=up).	negative=up).
PAT	-0	-Garage Ally	-Garage Apple
HNA			
ME	Identifies a clipping path	Identifies a clipping path	Identifies a clipping path
CDA	embedded in a picture for use	embedded in a picture for use	embedded in a picture for use
TA	as the runaround path.	as the runaround path.	as the runaround path.
#IMP			
LIED			
	Valid when	Valid when	Valid when
	RUNAROUND@TYPE =	RUNAROUND@TYPE =	RUNAROUND@TYPE =
OUT	AUTOIMAGE,	AUTOIMAGE,	AUTOIMAGE,
SET	EMBEDDEDPATH,	EMBEDDEDPATH,	EMBEDDEDPATH,
CDA	ALPHACHANNEL,	ALPHACHANNEL,	ALPHACHANNEL,
TA	NONWHITEAREAS, or	NONWHITEAREAS, or	NONWHITEAREAS, or
#IMP	SAMEASCLIPPING. Specifies a	SAMEASCLIPPING. Specifies a	SAMEASCLIPPING. Specifies a
LIED	single outset or inset integer	single outset or inset integer	single outset or inset integer
	value in points to be used on	value in points to be used on	value in points to be used on
	all sides.	all sides.	all sides.
	Valid when	Valid when	Valid when
NOIC	RUNAROUND@TYPE =	RUNAROUND@TYPE =	RUNAROUND@TYPE =
NOIS	AUTOIMAGE,	AUTOIMAGE,	AUTOIMAGE,
E	ALPHACHANNEL, or	ALPHACHANNEL, or	ALPHACHANNEL, or
CDA	NONWHITEAREAS. Specifies	NONWHITEAREAS. Specifies	NONWHITEAREAS. Specifies
TA	that areas smaller than this	that areas smaller than this	that areas smaller than this
#IMP	number of points should be	number of points should be	number of points should be
LIED	ignored when creating a	ignored when creating a	ignored when creating a
	runaround path.	runaround path.	runaround path.
	Valid when	Valid when	Valid when
THR	RUNAROUND@TYPE =	RUNAROUND@TYPE =	RUNAROUND@TYPE =
ESH	AUTOIMAGE,	AUTOIMAGE,	AUTOIMAGE,
OLD	ALPHACHANNEL, or	ALPHACHANNEL, or	ALPHACHANNEL, or
CDA	NONWHITEAREAS. Specifies	NONWHITEAREAS. Specifies	NONWHITEAREAS. Specifies
TA	the maximum integer	the maximum integer	the maximum integer
#IMP	percentage of darkness that	percentage of darkness that	percentage of darkness that
LIED	should be considered white	should be considered white	should be considered white
	when creating a runaround	when creating a runaround	when creating a runaround
	path.	path.	path.
SMO	Valid when	Valid when	Valid when
ОТН	RUNAROUND@TYPE =	RUNAROUND@TYPE =	RUNAROUND@TYPE =
NESS	AUTOIMAGE,	AUTOIMAGE,	AUTOIMAGE,
CDA	ALPHACHANNEL, or	ALPHACHANNEL, or	ALPHACHANNEL, or
TA	NONWHITEAREAS. Specifies	NONWHITEAREAS. Specifies	NONWHITEAREAS. Specifies
#IMP	the smoothness, in points, of	the smoothness, in points, of	the smoothness, in points, of

Elem			
ent	Construct	Modify	Deconstruct
type	an automatically created	an automatically created	an automatically created
LIED	runaround path.	runaround path.	runaround path.
OUT	r r r r r r	r r r r r r	
SIDE ONL Y (true false none) "non e"	Valid when RUNAROUND@TYPE = AUTOIMAGE, EMBEDDEDPATH, ALPHACHANNEL, or NONWHITEAREAS. Indicates that only the outer edges of the runaround path should be used.	Valid when RUNAROUND@TYPE = AUTOIMAGE, EMBEDDEDPATH, ALPHACHANNEL, or NONWHITEAREAS. Indicates that only the outer edges of the runaround path should be used.	Valid when RUNAROUND@TYPE = AUTOIMAGE, EMBEDDEDPATH, ALPHACHANNEL, or NONWHITEAREAS. Indicates that only the outer edges of the runaround path is used.
REST RICT TOB OX (true false none) "non	Valid when RUNAROUND@TYPE = AUTOIMAGE, EMBEDDEDPATH, ALPHACHANNEL, or NONWHITEAREAS. Indicates whether the runaround path is restricted to the inside of the box.	Valid when RUNAROUND@TYPE = AUTOIMAGE, EMBEDDEDPATH, ALPHACHANNEL, or NONWHITEAREAS. Indicates whether the runaround path is restricted to the inside of the box.	Valid when RUNAROUND@TYPE = AUTOIMAGE, EMBEDDEDPATH, ALPHACHANNEL, or NONWHITEAREAS. Indicates whether the runaround path is restricted to the inside of the box.
INVE RT (true false none) "non e"	Valid when RUNAROUND@TYPE = EMBEDDEDPATH, ALPHACHANNEL, or NONWHITEAREAS. Reverses the shape of the runaround path.	Valid when RUNAROUND@TYPE = EMBEDDEDPATH, ALPHACHANNEL, or NONWHITEAREAS. Reverses the shape of the runaround path.	Valid when RUNAROUND@TYPE = EMBEDDEDPATH, ALPHACHANNEL, or NONWHITEAREAS. Reverses the shape of the runaround path.
EDIT ED (true false none) "non e"	Not applicable.	Not applicable.	Indicates whether the runaround path has been manually edited in QuarkXPress.

SAVEAS (Modifier schema)

El			D
e			ec
m			О
en	Construct	Modify	ns
t			tr
ty			uc
pe			t
SA			N
VE	SAVEAS element typeLets you save a		ot
AS	constructed QuarkXPress project to a specific	Lets you save a modified QuarkXPress	ар
	location on the server computer. Roughly	project to a specific location on the server	pli
m	equivalent to choosing File > Save As in	computer. Roughly equivalent to choosing	ca
pt	QuarkXPress.	File > Save As in QuarkXPress.	bl
y)	Quarkin 1000.		e.
للنبا	ibutes		<u> </u>
N	Ibutes		\dashv
E IN			
-			
W			
N			
A			N
M			ot
E			ар
C	Specifies a name for the project being saved.	Specifies a name for the project being saved.	pli
D		Can be a relative path to the document pool.	ca
AT			bl
A			e.
#I			
M			
PL			
IE			
D			
PA			
Т			
Н			l I
C			N
$ _{\rm D} $			ot
AT	The absolute path on the server computer	The absolute path on the server computer	ap
A	for saving the project.	for saving the project.	pli
_{#I}	Tot out ing the project		ca
$\binom{\pi_1}{M}$			bl
PL			e.
IE IE			
1 1			
D			Н
SA	Specifies whether the project should be	Specifies whather the project chould be	N
VE	Specifies whether the project should be saved		ot
Т	to the document pool, in addition to saving	saved to the document pool, in addition to	ap
О	it in the location specified in the PATH	saving it in the location specified in the	pli
P	attribute.	PATH attribute.	ca

El			D
e			ec
m			О
en	Construct	Modify	ns
t			tr
ty			uc
pe			t
0			
О			
L			bl
(tr			e.
ue			
lı			
fal			
se)			
l _{"tr}			
ue			
"			
RE			
PL	Indicates whether the saved project should	Indicates whether the saved project should	
A	replace any existing file with the same name	replace any existing file with the same name	
1	in the specified location. An index number	in the specified location. An index number	N
(tr	gets appended to the file name if this value is	gets appended to the file name if this value	ot
ue	set to false and a file with the supplied name	is set to false and a file with the supplied	ap
"	exists at the specification location.For	name exists at the specification location.For	pli
fal	example, if NEWNAME = file.qxp and the	example, if NEWNAME = file.qxp and the	ca
1	REPLACE value is set to false, the file is saved	REPLACE value is set to false, the file is saved	bl
"tr	as file1.qxp when a file with the same name	as file1.qxp when a file with the same name	e.
ue	exists at the specified location.	exists at the specified location.	
"	exists at the specifica focation.	exists at the specifica location.	
			$oxed{oxed}$

SCALETO (Modifier schema)

Element type	Construct	Modify	Deco nstru ct
SCALET	SCALETO element typeLets you specify the	Lets you specify the maximum or	Not
О	maximum or minimum size of a box for a fit-	minimum size of a box for a fit-box-	appli
(empty)	box-to-content operation.	to-content operation.	cable.
Attributes	S		
X CDATA #REQUI RED	The largest or smallest allowable width for the resized box, as an integer percentage.	The largest or smallest allowable width for the resized box, as an integer percentage.	Not appli cable.
Y CDATA #REQUI RED	The largest or smallest allowable height for the resized box, as an integer percentage.	The largest or smallest allowable height for the resized box, as an integer percentage.	Not appli cable.

SECTION (Modifier schema)

Element type	Construct	Modify	Deconstruct
SECTION (empty)	SECTION element typeDescribes a section break in a layout.	Describes a section break in a layout.	Specifies a section in a QuarkXPress layout.
Attributes			
PREFIX CDATA #IMPLIED	The prefix to be added before each automatic page number inserted in this section.	The prefix to be added before each automatic page number inserted in this section.	The prefix to be added before each automatic page number inserted in this section.
OPERATION (CREATE DELETE) #IMPLIED	Not applicable.	Specifies whether to create or delete the indicated section.	Not applicable.
FORMAT (NUMERIC ROMAN SMALLROMAN ALPHA SMALLALPHA ASIANNUMBERS) #IMPLIED	The format of each automatic page number inserted in this section.	The format of each automatic page number inserted in this section.	The format of each automatic page number inserted in this section.
NUMBER CDATA #IMPLIED	The starting page number for this section.	The starting page number for this section.	The starting page number for this section.

SECTIONNUMBERFORMAT (Modifier schema)

Element type	Const	Modify	Decon
Element type	ruct	Widdify	struct
	Not	Allows you to specify the page	Not
SECTIONNUMBERFORMAT (empty)	applic	number format.	applic
	able.	number format.	able.
Attributes			
FORMAT (NUMERIC ROMAN	Not	The format of each automatic page	Not
SMALLROMAN ALPHA SMALLALPHA	applic	number inserted in this section.	applic
ASIANNUMBERS) #IMPLIED	able.	number miserted in this section.	able.
	Not	The prefix to be added before each	Not
PREFIX CDATA #IMPLIED	applic	automatic page number inserted in	applic
	able.	this section.	able.
	Not	Fixes the page number for the first	Not
INITIALPAGENUMBER	applic	page of the PAGESEQUENCE to	applic
	able.	which it applies.	able.

SHADINGSTYLE (Modifier schema)

Element type	Construct	Modify	Deconstruct
	Allows you to specify	Allows you to specify the	Allows you to specify the
SHADINGSTYLE	the shading style	shading style applied to	shading style applied to
	applied to the text.	the text.	the text.

Element type	Construct	Modify	Deconstruct
Attributes		•	
NAME	Specifies the name of the pre-defined text shading style to be applied to the text.	pre-defined text shading style to be applied to the text.	style to be applied to the text.
COLOR	Specifies the color of the text shading to be applied to the text.	Specifies the color of the text shading to be applied to the text.	Specifies the color of the text shading to be applied to the text.
SHADE	Specifies the shade of the text shading color.	Specifies the shade of the text shading color.	Specifies the shade of the text shading color.
OPACITY	Specifies the opacity of the text shading color.	Specifies the opacity of the text shading color.	Specifies the opacity of the text shading color.
LENGTH	Specifies the length of the text shading to be applied to the text. Allowed options are: INDENTS = text shading will be applied to the entire line between the defined indents. TEXT = text shading will be applied only the length of the text in each line. COLUMN = text shading will be applied to the entire length of the box.	Specifies the length of the text shading to be applied to the text. Allowed options are: INDENTS = text shading will be applied to the entire line between the defined indents. TEXT = text shading will be applied only the length of the text in each line. COLUMN = text shading will be applied to the entire length of the box.	Specifies the length of the text shading to be applied to the text. Allowed options are: INDENTS = text shading will be applied to the entire line between the defined indents. TEXT = text shading will be applied only the length of the text in each line. COlumn = text shading will be applied to the entire length of the box.
CLIPTOBOX (true false)	Confines the text shading to the bounding box.	Confines the text shading to the bounding box.	Confines the text shading to the bounding box.
RIGHTPADDING	Specifies the right offset.	Specifies the right offset.	Specifies the right offset.
BOTTOMPADDING	Specifies the bottom offset.	Specifies the bottom offset.	Specifies the bottom offset.
LEFTPADDING	Specifies the left offset.	Specifies the left offset.	Specifies the left offset.
TOPPADDING	Specifies the top offset.	Specifies the top offset.	Specifies the top offset.
BORDERWIDTH	Specifies the width of	Specifies the width of	Specifies the width of

Element type	Construct	Modify	Deconstruct
	the frame.	the frame.	the frame.
BORDERSTYLE	Specifies the frame style.	.Specifies the frame style.	Specifies the frame style.
BORDERCOLOR	Specifies the color of the frame.	Specifies the color of the frame.	Specifies the color of the
			frame.
BORDERSHADE	Specifies the shade of the frame color.	frame color.	Specifies the shade of the frame color.
	Specifies the opacity	Specifies the opacity of	Specifies the opacity of
BORDEROPACITY	of the frame color.	the frame color.	the frame color.
LEFTBORDER (true false)	Indicate that you want the frame to appear on the left of the text.	Indicate that you want the frame to appear on the left of the text.	Indicate that you want the frame to appear on the left of the text.
RIGHTBORDER (true false)	Indicate that you want the frame to appear on the right of the text.	Indicate that you want the frame to appear on the right of the text.	Indicate that you want the frame to appear on the right of the text.
TOPBORDER (true false)	Indicate that you want the frame to appear above the text.	Indicate that you want the frame to appear above the text.	Indicate that you want the frame to appear above the text.
BOTTOMBORDER (true false)	Indicate that you want the frame to appear below the text.	Indicate that you want the frame to appear below the text.	Indicate that you want the frame to appear below the text.
BORDERRIGHTPADDI NG	Specifies the frames right offset.	Specifies the frames right offset.	
BORDERBOTTOMPAD DING	Specifies the frames bottom offset.	Specifies the frames bottom offset.	Specifies the frames bottom offset.
BORDERLEFTPADDIN G	Specifies the frames left offset.	Specifies the frames left offset.	Specifies the frames left offset.
BORDERTOPPADDING	Specifies the frames top offset.	Specifies the frames top offset.	Specifies the frames top offset.

SHADOW (Modifier schema)

El e m en t ty pe	Construct	Modify	Deconstruct
	SHADOW element typeDescribes an automatic drop shadow.	Describes an automatic drop shadow.	Describes an automatic drop shadow.

El			
e			
m			
en	Construct	Modify	Deconstruct
t		Í	
ty			
pe			
m			
pt			
y)			
Att	ributes		
С			
Ю			
L			Identifies the color of a
O		Identifies the color of a drop	drop shadow.Note: Only
1	T	•	*
R	Identifies the color of a drop	shadow.Note: Only the name of	the name of a color is
C	shadow.Note: Only the name of	a color is included in this	included in this attribute.
D	a color is included in this	attribute. The definition of the	The definition of the color
Α	attribute. The definition of the	color is stored in the projects	is stored in the projects Job
Т	color is stored in the projects	Job Jackets file, defined using	Jackets file or defined using
$ _{A}$	Job Jackets file or defined using	the Document Controls	the Document Controls
#R	the Document Controls	submenu in QuarkXPress Server,	submenu in QuarkXPress
E	submenu in QuarkXPress Server.	or an existing color created and	Server, or an existing color
	submenu in QuarkAPiess server.	g .	
Q		saved in the project.	created and saved in the
UI			project.
RE			
D			
S			
Н			
$ _{A}$			
D			
E			
C			
D	Specifies the shade of the color	Specifies the shade of the color	Specifies the shade of the
A	applied to a drop shadow, as an	applied to a drop shadow, as an	color applied to a drop
Т	integer percentage from 0 to	integer percentage from 0 to	shadow, as an integer
A	100.	100.	percentage from 0 to 100.
#R			
E			
Q			
UI			
RE			
D			
О			
$ _{PA}$			
CI	Specifies the opacity of a drop	Specifies the opacity of a drop	Specifies the opacity of a
T			drop shadow, specified as
1	shadow, specified as an integer	shadow, specified as an integer	an integer percentage from
Y	percentage from 0 to 100.	percentage from 0 to 100.	0 to 100.
С			
D			

17.1			
El			
е			
m			
en	Construct	Modify	Deconstruct
t			
ty			
pe			
A			
T			
1			
A			
#R			
E			
Q			
UI			
RE			
$ _{\rm D}$			
A			
N			
G			
LE			
C			
D	Specifies an angle in degrees for	Specifies an angle in degrees for	Specifies an angle in
Α	Specifies an angle in degrees for	Specifies an angle in degrees for	degrees for a drop shadow.
T	a drop shadow. Should be a	a drop shadow. Should be a	Should be a floating point
A	floating point value between –	floating point value between –	value between –180 and
#R	180 and 180.	180 and 180.	180.
E			100.
Q			
UI			
RE			
D			
DI			
ST			
Α			
N			
C			
E			
			Specifies the distance in
C	Specifies the distance in points	Specifies the distance in points	Specifies the distance in
D	from the edge of an item to the	from the edge of an item to the	points from the edge of an
Α	edge of the items drop shadow	edge of the items drop shadow	item to the edge of the
Т	as a floating point value.	as a floating point value.	items drop shadow as a
A	as a noating point value.	as a moating point value.	floating point value.
#R			
E			
Q			
UI			
RE			
D			
SK	Specifies a skew angle for a drop	Specifies a skew angle for a drop	Specifies a skew angle for a
E	shadow as a floating-point value	shadow as a floating-point value	drop shadow as a floating-
	G F	0 F	1

El			
e			
m			
en	Construct	Modify	Deconstruct
t			
ty			
pe			
W			1 6 75
C	from –75 degrees to 75 degrees	from –75 degrees to 75 degrees	point value from –75
D			degrees to 75 degrees
A			
1			
T			
A			
#R			
E			
Q			
UI			
RE			
D			
S			
С			
Α			
LE			
C			
D	Specifies the size of an items	Specifies the size of an items	Specifies the size of an
A	drop shadow as an integer	drop shadow as an integer	items drop shadow as an
T	percentage of the size of the	percentage of the size of the	integer percentage of the
A	item. The valid values are from	item. The valid values are from	size of the item. The valid
#R			values are from 10 to 1000
1	10 to 1000 percent.	10 to 1000 percent.	percent.
E			
Q			
UI			
RE			
D			
BL			
U			
R			
С			
D			Specifies the blur distance
A	Specifies the blur distance for a	Specifies the blur distance for a	*
Т	drop shadow, from 0 to 144	drop shadow, from 0 to 144	for a drop shadow, from 0
Α	points, with higher values	points, with higher values	to 144 points, with higher
#R	creating blurrier edges.	creating blurrier edges.	values creating blurrier
E			edges.
Q			
UI			
RE			
D			
K	Specifies whether a shadow	Specifies whether a shadow	Specifies whether a shadow
N	displays through semi-opaque	displays through semi-opaque	displays through semi-
	<u> </u>	<u>I</u>	<u> </u>

El			
e			
m			
en	Construct	Modify	Deconstruct
t	Construct	Modify	Deconstruct
ty			
pe			
О			
C	areas of its item.	areas of its item.	opaque areas of its item.
K			
0			
U			
TS			
Н			
A			
$ _{\rm D} $			
0			
W			
(tr			
ue			
$ \cdot $			
fal			
se			
)			
"f			
als			
e"			
SY			
N			
C			
Н			
R			
О			
NI			
ZE			
A	Specifies whether to synchronize	Specifies whether to synchronize	Specifies whether to
N	the angle of a drop shadow with	the angle of a drop shadow with	synchronize the angle of a
G	the angles of other drop	the angles of other drop	drop shadow with the
LE	shadows in the layout.	shadows in the layout.	angles of other drop
(tr	_		shadows in the layout.
ue			
fal			
se			
) "f			
als e"			
\vdash			
R	Specifies whether to include a	Specifies whether to include a	Specifies whether to
U	drop shadow with the text	drop shadow with the text	include a drop shadow

TI.			
El			
е			
m		N. C. 116	D
en	Construct	Modify	Deconstruct
t			
ty			
pe			
N	runaround specified in the	runaround specified in the	with the text runaround
A	RUNAROUND element.Note:	RUNAROUND element.Note:	specified in the
R	The OUTSET attribute of the	The OUTSET attribute of the	RUNAROUND
О	RUNAROUND element is	RUNAROUND element is	element.Note: The OUTSET
U	measured from the edges of the	measured from the edges of the	attribute of the
N	drop shadow. For example, if	drop shadow. For example, if	RUNAROUND element is
D	text is wrapping around a	text is wrapping around a	measured from the edges of
S	rectangular pull-out quote with	rectangular pull-out quote with	the drop shadow. For
Н	a drop shadow, text will not	a drop shadow, text will not	example, if text is
A	overlap the drop shadow if	overlap the drop shadow if	wrapping around a
D	RUNAROUNDSHADOW is set to	RUNAROUNDSHADOW is set to	rectangular pull-out quote
О	true.	true.	with a drop shadow, text
W			will not overlap the drop
(tr			shadow if
ue			RUNAROUNDSHADOW is
			set to true.
fal			
se			
)			
"f			
als			
e"			
M			
U			
LT	Specifies how a drop shadow is	Specifies how a drop shadow is	Specifies how a drop
IP	combined with its	combined with its	shadow is combined with
LY	background.When true, the	background.When true, the	its background.When true,
S	shadow color is combined with	shadow color is combined with	the shadow color is
Н	the background color or colors	the background color or colors	combined with the
A	using a "multiply" blending	using a "multiply" blending	background color or colors
D	mode, producing a darker result	mode, producing a darker result	using a "multiply"
О	(similar to an overprint).When	(similar to an overprint).When	blending mode, producing
W	false, the color of the	false, the color of the	a darker result (similar to
(tr	background is combined with	background is combined with	an overprint).When false,
ue	the color of the shadow to	the color of the shadow to	the color of the
	create the intermediate shades	create the intermediate shades	background is combined
fal	you see on screen.In general, set	you see on screen.In general, set	with the color of the
se	to true if the shadow is a lighter	to true if the shadow is a lighter	shadow to create the
)	color, and set to false if the	color, and set to false if the	intermediate shades you
"t	shadow is black.	shadow is black.	see on screen.
ru			
e"			
IN	Specifies whether the drop	Specifies whether the drop	Specifies whether the drop
	1 F	1F	1

El			
e			
m			
en	Construct	Modify	Deconstruct
t			
ty			
pe			
Н	shadow reflects the opacity or	shadow reflects the opacity or	shadow reflects the opacity
ER	opacities of the item, such as	opacities of the item, such as	or opacities of the item,
IT	differences in opacity between	differences in opacity between	such as differences in
О	the box background and frame.	the box background and frame.	opacity between the box
PA			background and frame.
CI			
T			
Y			
(tr			
ue			
fal			
se			
)			
"f			
als			
e"			

SHRINKACROSS (Modifier schema)

Element type	Construct	Modify	Deco nstru ct
SHRINKAC	SHRINKACROSS	Shrinks a box horizontally to the left by the specified	Not
ROSS	element typeNot	number of points.Note: A box can shrink on the same page	appli
(#PCDATA)	applicable.	or on other spreads and pages.	cable.

SHRINKDOWN (Modifier schema)

Element type	Construct	Modify	Deco nstru ct
SHRINKD OWN (#PCDAT A)		Shrinks a box vertically toward the top of the page by the specified number of points.Note: A box can shrink on the same page or on other spreads and pages.	Not appli cable

SINGLEMASTERPAGEREFERENCE (Modifier schema)

Element type	Construct	Modify	Deconstruct
		SINGLEMASTERPAGER	
		EFERENCE element	
		typeDefines a sequence	
		in which a single	
SINGLEMASTERPAGER	Not appliable	master page will be	Not applicable
EFERENCE (NAME*)	Not applicable.	applied to pages in a	Not applicable.
		page sequence. The	
		given master page is	
		applied to one page of	
		the page sequence.	
Attributes			
		Specifies the name of	
NAME	Not applicable.	the master page in the	Not applicable.
INAIVIE		QuarkXPress template	пот аррисавіе.
		to be used.	

SIZE (Modifier schema)

Element type	Construct	Modify	Deco nstru ct
SIZE (empty)	SIZE element typeLets you specify the maximum or minimum size of a box for a fit-box-to-content operation.	Lets you specify the maximum or minimum size of a box for a fit-box-to-content operation.	Not appli cable.
Attributes			•
WIDTH CDATA #REQUIRE D	The largest or smallest allowable width for the resized box.	The largest or smallest allowable width for the resized box.	Not appli cable.
HEIGHT CDATA #REQUIRE D	The largest or smallest allowable height for the resized box.	The largest or smallest allowable height for the resized box.	Not appli cable.

SPINEIMAGE (Modifier schema)

Element type	Construct	Modify	Deconstruct
SPINEIMAGE (#PCDATA)	SPINEIMAGE element typeNot applicable.	Part of the <ebookmetadata> element. Specifies the path of the spine image (if any).</ebookmetadata>	Specifies the path of the spine image (if any).
Attributes			
INCLUDE		If true, a spine image is included with	If true, a spine image is
(true false)	Not applicable.	Blio eBook output.	included with Blio
#REQUIRED		1	eBook output.

SPLINESHAPE (Modifier schema)

Element type	Construct	Modify	Deconstruct
	SPLINESHAPE element	Specifies a complex	Specifies a complex
SPLINESHAPE	typeSpecifies a complex spline	spline shape in	spline shape in
	shape in QuarkXPress (i.e., the	QuarkXPress (i.e., the	QuarkXPress (i.e., the
(CONTOURS)	curve of a Bezier box or Bezier	curve of a Bezier box or	curve of a Bezier box or
	text path).	Bezier text path).	Bezier text path).
Attributes			
RECTSHAPE	Consider the state of the state of	Specifies whether the	Specifies whether the
(true false)	Specifies whether the shape is a	shape is a pure	shape is a pure
"false"	pure rectangle.	rectangle.	rectangle.
D W TED TED CIT		Specifies whether the	Specifies whether the
INVERTEDSH	Specifies whether the shape	shape encodes the	shape encodes the
APE (true	encodes the inverse of its area	inverse of its area	inverse of its area
false) "false"	("inside out").	("inside out").	("inside out").
HASSPLINES	Specifies whether any of the	Specifies whether any of	Specifies whether any of
(true false)	contours in the shape contains	the contours in the	the contours in the
"false"	a spline.	shape contains a spline.	shape contains a spline.
HASHOLES	-	Specifies whether any of	Specifies whether any of
(true false)	Specifies whether any of the	the contours is inside	the contours is inside
"false"	contours is inside another.	another.	another.
NEWFORMAT	Specifies whether incompatible	Specifies whether	Specifies whether
(true false)	with "old" (3.31 and below)	incompatible with "old"	incompatible with "old"
"false"	shapes.	(3.31 and below) shapes.	(3.31 and below) shapes.
MORETHANO		(*** ** *** *** *** *** *** *** *** ***	(*** ** ** *** *** *** *** *** *** ***
NETOPLEVEL		Specifies whether there	Specifies whether there
CONTOUR	Specifies whether there is more	is more than one top-	is more than one top-
(true false)	than one top-level contour.	level contour.	level contour.
"false"			
CLOSEDSHAP	Specifies whether all its	Specifies whether all its	Specifies whether all its
E (true false)	contours are closed. (Polylines	contours are closed.	contours are closed.
"false"	might not be.)	(Polylines might not be.)	(Polylines might not be.)
	,	Specifies whether the	Specifies whether the
WELLFORME	Specifies whether the shape	shape does not intersect	shape does not intersect
D (true false)	does not intersect itself other	itself other than at the	itself other than at the
"false"	than at the vertex.	vertex.	vertex.
TAGSALLOCA		Specifies whether the	Specifies whether the
TED (true	Specifies whether the vertex	vertex tags are set	vertex tags are set
false) "false"	tags are set correctly.	correctly.	correctly.
INCOMPLETE	Specifies whether shape is	Specifies whether shape	Specifies whether shape
(true false)	associated with UNFINISHED	is associated with	is associated with
"false"	box.	UNFINISHED box.	UNFINISHED box.
VERTSELECTE			
D (true false)	Specifies whether one or more	Specifies whether one or	Specifies whether one or
"false"	verts are selected.	more verts are selected.	more verts are selected.
10150		l	

SPREAD (Modifier schema)

Element type	Construct	Modify	Deconstruct
SPREAD (ID, PAGE*, (BOX TABLE GROUP COMPOSITIONZONE)*)	SPREAD element typeDescribes a spread (a series of one or more PAGE elements, divided by a SPINE)	Identifies the spread to be modified.	Describes a spread (a series of one or more PAGE elements, divided by a SPINE).
Attributes			
OPERATION (CREATE DELETE) #IMPLIED	Not applicable.	Specifies whether to create or delete the indicated spread.	Not applicable.

STACKINGORDER (Modifier schema)

			De
Eleme			со
nt	Construct	Modify	ns
	Construct	Modify	tr
type			uc
			t
STAC			N
KING	STACKINGORDER element typeLets you	Lets you control whether a box or line	ot
ORDE	control whether a box or line is in front of or	is in front of or behind other items on	ap
R	behind other items on the page. Only accepts	the page.Only accepts	pli
(#PC	SENDBACKWARD, SENDTOBACK,	SENDBACKWARD, SENDTOBACK,	ca
DATA	BRINGFORWARD, BRINGTOFRONOT.	BRINGFORWARD, BRINGTOFRONOT.	bl
)			e.

STATICCONTENT (Modifier schema)

Element type	Const ruct	Modify	Deco nstruc t
STATICCO	Not	STATICCONTENT element typeEnables you to specify content chunks	Not
NTENT	Appli	that are intended to be repeated across multiple flow page (i.e. running	Appli
(BOX*)	cable.	headers and footers).	cable.

STORY (Modifier schema)

Element type	Construct	Modify	Deconstruct
STORY (COPYFIT?, FITTEXT?,(PARAGRAPH RICHTEXT ANCHOREDBOXREF LINKEDBOX	STORY element typeDescribes a text story in a text box or a chain of text boxes.	Describes a text story in a text box or a chain of text boxes.	Describes a text story in a text box or a chain of text boxes.

Element type	Construct	Modify	Deconstruct
TEXTNODEPH			
TEXTPH HIDDEN			
LIST RUBI			
CALLOUTANCHOR			
INLINETABLE			
INLINEBOX			
PAGEBREAK			
MATHEQUATION)*,			
OVERMATTER?)			
Attributes	•		
CLEAROLDTEXT (true	Not applicable.	Clears any existing text	Not applicable.
false) "true"	Not applicable.	from the box.	Not applicable.
	Increases or decreases	Increases or decreases	
	the size of the text to fit	the size of the text to fit	
	into the text box or	into the text box or	
	text chain.Note: Text	text chain.Note: Text	
	size increases only if	size increases only if	
	Allow Text to Grow is	Allow Text to Grow is	
	checked in Text	checked in Text	
	Modifier preferences	Modifier preferences	
	(QuarkXPress	(QuarkXPress	
EITTEVTTODOV (America)	Server/Edit >	Server/Edit >	
FITTEXTTOBOX (true false) "false"	Preferences) in	Preferences) in	Not applicable.
raise) raise	QuarkXPress	QuarkXPress	
	Server.Note: To control	Server.Note: To control	
	how text fits to a box	how text fits to a box	
	on a story-by-story	on a story-by-story	
	basis, use the	basis, use the	
	<fittext> element</fittext>	<fittext> element</fittext>	
	type (for more	type (for more	
	information, see	information, see	
	"FITTEXT (Modifier	"FITTEXT (Modifier	
	schema)").	schema)").	
	The absolute path (on	The absolute path (on	
FILE CDATA #IMPLIED	the server computer) to	the server computer) to	Not applicable.
	import a text document	import a text document	тот иррпсиыс.
	from.	from.	
	Converts straight	Converts straight	
	quotation marks to	quotation marks to	
CONVERTQUOTES	typesetter's quotation	typesetter's quotation	Not applicable.
(true false) "true"	marks and double	marks and double	st applicable.
	hyphens to em dashes	hyphens to em dashes	
	in an imported text file.	in an imported text file.	
	Adds any style sheets in	Adds any style sheets in	
INCLUDESTYLESHEETS	an imported text file or	an imported text file or	Not applicable.
(true false) "true"	document to the	document to the	TF
	QuarkXPress project.	QuarkXPress project.	
STORYDIRECTION	Specified direction of	Specified direction of	Specified direction of
(HORIZONTAL	this story.	this story.	this story.
	<u>I</u>	<u>I</u>	

Element type	Construct	Modify	Deconstruct
VERTICAL) #IMPLIED			
UID CDATA #IMPLIED	Unique identifier of	Unique identifier of	Unique identifier of
OID CDAIA #IMIFLIED	this story.	this story.	this story.
TEXTOVERFLOW	Specifies how to	Specifies how to	Specifies how to
(ELLIPSIS CLIP	represent over flow	represent over flow	represent over flow
CUSTOM STRING)	text.	text.	text.

SUPPRESSOUTPUT (Modifier schema)

Eleme nt type	Construct	Modify	Deconstruct
SUPPR ESSO UTPU T (#PCD ATA)	SUPPRESSOUTPUT element typeSpecifies whether a box is included in output.A true value does not include the box; a false value includes the box.	Specifies whether a box is included in output. A true value does not include the box; a false value includes the box.	Specifies whether a box is included in output. A true value does not include the box; a false value includes the box.

TAB (Modifier schema)

Eleme nt	Construct	Modify	Deconstruct
type			
TAB (empt y)	TAB element typeDescribes a single tab stop.	Describes a single tab stop.	Describes a single tab stop.
Attribu	ites		
POSIT ION CDAT A #REQ UIRE D	Specifies the position of a tab stop.	Specifies the position of a tab stop.	Specifies the position of a tab stop.
FILL CDAT A #IMP LIED	Identifies one or two characters to repeat in order to fill the space between text and a tab stop.	Identifies one or two characters to repeat in order to fill the space between text and a tab stop.	Identifies one or two characters that repeat in order to fill the space between text and a tab stop.
ALIG NME NT (LEFT RIGH T	Indicates how a tab stop should be aligned.LEFT = Aligns text flush left on the tab stop.RIGHT = Aligns text flush right on the tab stop.CENTER = Aligns text centrally on the tab	Indicates how a tab stop should be aligned.LEFT = Aligns text flush left on the tab stop.RIGHT = Aligns text flush right on the tab stop.CENTER = Aligns text centrally on the tab	Indicates how a tab stop is aligned.LEFT = Aligns text flush left on the tab stop.RIGHT = Aligns text flush right on the tab stop.CENTER = Aligns text centrally on the tab

Eleme nt type	Construct	Modify	Deconstruct
CENT ER COM MA DECI MAL ALIG NON) "LEFT"	stop.DECIMAL = Aligns text on a decimal point (period).COMMA = Aligns text on a first comma.ALIGN ON = Aligns text on any character you specify in the ALIGNON attribute.	stop.DECIMAL = Aligns text on a decimal point (period).COMMA = Aligns text on a first comma.ALIGN ON = Aligns text on any character you specify in the ALIGNON attribute.	stop.DECIMAL = Aligns text on a decimal point (period).COMMA = Aligns text on a first comma.ALIGN ON = Aligns text on any character you specify in the ALIGNON attribute.
ALIG NON CDAT A #IMP LIED>	Specifies a specific character to align a tab stop on.	Specifies a specific character to align a tab stop on.	Specifies a specific character a tab stop is aligned on.
ENAB LED (true false) "true"			

TABLE (Modifier schema)

Element type	Construct	Modify	Deconstruct
TABLE (ID,			
METADATA?,			
(PARENTTABL			
E	TABLE element		
TABLEBREAK	typeDescribes a	Describes a table.Note: The	Describes a table.Note: The
ADDCELLS	table.Note: The size	size and position of a table	size and position of a table
DELETECELLS	and position of a table	are defined using the	are defined using the
COLSPEC	are defined using the	GEOMETRY element.	GEOMETRY element.
ROW FRAME	GEOMETRY element.		
GEOMETRY			
SHADOW			
GRID)*)			
Attributes			
OPERATION			
(CREATE	Not applicable.	Specifies whether to create	Not applicable.
DELETE)	тот иррпсиыс.	or delete the indicated table.	Two applicable.
#IMPLIED			
ROWS CDATA	Specifies the number	Specifies the number of rows	Specifies the number of rows
#IMPLIED	of rows in a table,	in a table, including the	in a table, including the
	including the header.	header.	header.
COLUMNS	Specifies the number	Specifies the number of	Specifies the number of
	<u> </u>	l	

Element type	Construct	Modify	Deconstruct
CDATA	of columns in a table.	columns in a table.	columns in a table.
#IMPLIED			
MAINTAINGE OMETRY (true false none) "none"	Controls whether inserted rows or columns affect the entire table's width and height.true = Table height and width remain the same.false = Table height and width change to accommodate new rows and columns.	Controls whether inserted rows or columns affect the entire table's width and height.true = Table height and width remain the same.false = Table height and width change to accommodate new rows and columns.	Controls whether inserted rows or columns affect the entire table's width and height.true = Table height and width remain the same.false = Table height and width change to accommodate new rows and columns.
COLOR CDATA #IMPLIED	Identifies the color of a table.Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server.	Identifies the color of a table. Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server, or an existing color created and saved in the project.	Identifies the color of a table. Note: Only the name of a color is included in this attribute. The definition of the color is stored in the projects Job Jackets file or defined using the Document Controls submenu in QuarkXPress Server, or an existing color created and saved in the project.
SHADE CDATA #IMPLIED	Specifies the shade of the color applied to a table, as an integer percentage from 0 to 100.	Specifies the shade of the color applied to a table, as an integer percentage from 0 to 100.	Specifies the shade of the color applied to a table, as an integer percentage from 0 to 100.
OPACITY CDATA #IMPLIED	Specifies the opacity of the color applied to a table, specified as an integer percentage from 0 to 100.	Specifies the opacity of the color applied to a table, specified as an integer percentage from 0 to 100.	Specifies the opacity of the color applied to a table, specified as an integer percentage from 0 to 100.
BLENDSTYLE (SOLID LINEAR MIDLINEAR RECTANGULA R DIAMOND CIRCULAR FULLCIRCUL AR none) "none"	Specifies the type of blend applied to this table (linear, circular, rectangular, etc.).	Specifies the type of blend applied to this table (linear, circular, rectangular, etc.).	Specifies the type of blend applied to this table (linear, circular, rectangular, etc.).
BLENDANGLE CDATA #IMPLIED	Specifies the angle of the blend.	Specifies the angle of the blend.	Specifies the angle of the blend.
BLENDCOLO	Specifies the second	Specifies the second color of	Specifies the second color of

Element type	Construct	Modify	Deconstruct
R CDATA	color of the blend. The	the blend. The first color of	the blend. The first color of
#IMPLIED	first color of the blend	the blend is the color	the blend is the color
	is the color applied to	applied to the table, as in	applied to the table, as in
	the table, as in	QuarkXPress.	QuarkXPress.
	QuarkXPress.		
BLENDSHADE CDATA #IMPLIED	Specifies the shade applied to the second color of the blend. The shade of the first color of the blend is the shade of the color applied to the table.	Specifies the shade applied to the second color of the blend. The shade of the first color of the blend is the shade of the color applied to the table.	Specifies the shade applied to the second color of the blend. The shade of the first color of the blend is the shade of the color applied to the table.
BLENDOPACI TY CDATA #IMPLIED	Specifies the opacity applied to the second color of the blend. The opacity of the first color of the blend is the opacity of the color applied to the table.	Specifies the opacity applied to the second color of the blend. The opacity of the first color of the blend is the opacity of the color applied to the table.	Specifies the opacity applied to the second color of the blend. The opacity of the first color of the blend is the opacity of the color applied to the table.
ANCHOREDI			Indicates an anchored box
N CDATA	Not applicable.	Not applicable.	
#IMPLIED			and identifies its parent box.
AUTOFIT	Specifies whether the	Specifies whether the rows	Specifies whether the rows
(rows	rows or columns will	or columns will adjust size	or columns will adjust size
columns all	adjust size to fit the	to fit the content.	to fit the content.
none) "none"	content.	to iit the content.	to iit the content.
AUTOFITMAX LIMIT CDATA #IMPLIED	Max limit for AUTOFIT.	Max limit for AUTOFIT.	Max limit for AUTOFIT.
ANCHOREDG	Specifies that this table	Specifies that this table is a	Specifies that this table is a
ROUPMEMBE	is a member of the	member of the indicated	member of the indicated
R CDATA	indicated anchored	anchored group.	anchored group.
#IMPLIED	group.	9 1	0.0 mP.
ADDTOREFLO W (true false) #IMPLIED	Not applicable.	If true, adds this table to the project's reflow article. Equivalent to the Digital Publishing > Add to Reflow command in QuarkXPress.	Not applicable.
ARTICLENAM E CDATA #IMPLIED	Not applicable.	Specifies the name of the project's reflow article (to which this table is being added as a component). If no reflow article exists and you do not include this attribute, the default reflow article name is used.	Not applicable.

TABLEBREAK (Modifier schema)

Element type	Construct	Modify	Deconstruct
TABLEBREAK (CHILDID HEADER FOOTER)*	TABLEBREAK element typeSets a table break for a HEADER or FOOTER or both.	Sets a table break for a HEADER or FOOTER or both.	Sets a table break for a HEADER or FOOTER or both.
Attributes		-	
BREAKHEIGHT CDATA #IMPLIED	Specifies the height at which a table is set to break.	Specifies the height at which a table is set to break.	Indicates the height at which a table is set to break.
MAINTAINLINK (true false) "true"	Specifies whether a child table will maintain a link to its parent.	Specifies whether a child table will maintain a link to its parent.	Specifies whether a child table will maintain a link to its parent.
BREAKWHENAN CHORED (true false) #IMPLIED	Specifies whether the table will break when anchored in a text flow.	Specifies whether the table will break when anchored in a text flow.	Specifies whether the table will break when anchored in a text flow.

TABLESTYLE (Modifier schema)

Element type	Construct	Modify	D ec o ns tr uc t
TABLESTYLE ((ID, FRAME?, TROWSTYLE, HEADTROWSTYLE?, CONTINUEDTROWSTYLE?, FOOTERTROWSTYLE?, ODDTROWSTYLE?, EVENTROWSTYLE?, TCOLSTYLE, FIRSTTCOLSTYLE?, LASTTCOLSTYLE?, ODDTCOLSTYLE?, EVENTCOLSTYLE?)	TABLESTYLE element typeDescribes a style that can be applied to an <inlinetable>.</inlinetable>	Describes a style that can be applied to an <inlinetable>.</inlinetable>	N ot ap pli ca bl e.
Attributes	ļ	!	
WIDTH CDATA #IMPLIED	Specifies the default width of the <tablestyle>, expressed as a percentage of the width of the parent column or as an absolute measurement. To specify a percentage, use a number without a unit indicator.</tablestyle>	Specifies the default width of the <tablestyle>, expressed as a percentage of the width of the parent column or as an absolute measurement. To specify a percentage, use a number without a unit indicator.</tablestyle>	N ot ap pli ca bl e.

TABSPEC (Modifier schema)

Element type	Construct	Modify	Deconstruct
TABSPEC	TABSPEC element typeDescribes a	Describes a group of	Describes a group of
(TAB)+	group of tab stops.	tab stops.	tab stops.

TBODY (Modifier schema)

Element type	Construct	Modify	Deconstr uct
TBODY (TROW+)	1	Identifies the body portion of an <inlinetable>.</inlinetable>	Not applicabl e.

TCOL (Modifier schema)

Element type	Construct	Modify	D ec o ns tr uc t
TCOL (LEFTGRI D?, RIGHTGRI D?)	TCOL element typeDescribes a column in an <inlinetable>.</inlinetable>	Describes a column in an <inlinetable>.</inlinetable>	N ot ap pli ca bl e.
Attributes			
COLINDE X CDATA #REQUIRE D	Identifies the position of the column, with the first column being column 1.	Identifies the position of the column, with the first column being column 1.	N ot ap pli ca bl e.
WIDTH CDATA #IMPLIED	Specifies the width of the column, either as an absolute measurement or as a percentage of the table width. To specify a percentage, use %. If you do not specify a width, column widths are distributed evenly.	Specifies the width of the column, either as an absolute measurement or as a percentage of the table width. To specify a percentage, use %. If you do not specify a width, column widths are distributed evenly.	N ot ap pli ca bl e.
MINWIDT H CDATA	Specifies the minimum width of the column, either as an absolute	Specifies the minimum width of the column, either as an absolute	N ot

			D ec
T1 (О
Element	Construct	Modify	ns
type			tr
			uc
			t
	measurement or as a percentage of the	measurement or as a percentage of the	ap
#IMPLIED	table width. To specify a percentage, use	table width. To specify a percentage, use	pli
	%.	%.	ca
			bl
			e.
			N
	Specifies the maximum width of the	Specifies the maximum width of the	ot
MAXWID	column, either as an absolute	column, either as an absolute	ap
1	measurement or as a percentage of the	measurement or as a percentage of the	pli
#IMPLIED	table width. To specify a percentage, use	table width. To specify a percentage, use	ca
	%.	%.	bl
			e. N
			ot
COLOR			ap
CDATA	Specifies the background color of the	Specifies the background color of the	pli
#IMPLIED	column.	column.	ca
			bl
			e.
			N
			ot
SHADE		Constitution of the form	ap
CDATA	Specifies the background shade of the	Specifies the background shade of the	pli
#IMPLIED	column.	column.	ca
			bl
			e.
STORYDIR			N
ECTION			ot
(HORIZO	Specifies the default story direction of	Specifies the default story direction of	ap
NTAL	the column.	the column.	pli
VERTICAL	· · · · · · · · · · · · · · · · · · ·	1 · · · · · · · · · · · · · · · · · · ·	ca
)			bl
#IMPLIED			e.

TCOLSTYLE (Modifier schema)

Element type	Construct	Modify	Decons truct
TCOLSTYLE (LEFTGRID?, RIGHTGRID?)	TCOLSTYLE element typeDefines a style for a column in an <inlinetable>.</inlinetable>	Defines a style for a column in an <inlinetable>.</inlinetable>	Not applica ble.
Attributes			

Element type	Construct	Modify	Decons truct
WIDTH CDATA #IMPLIED	Specifies the width of the column style.	Specifies the width of the column style.	Not applica ble.
COLOR CDATA #IMPLIED	Specifies the background color of the column style.	Specifies the background color of the column style.	Not applica ble.
SHADE CDATA #IMPLIED	Specifies the background shade of the column style.	Specifies the background shade of the column style.	Not applica ble.

TCONTINUED (Modifier schema)

Element type	Construct	Modify	Deco nstruc t
TCONTIN	TCONTINUED element typeIdentifies a	Identifies a continued" indicator	Not
UED	continued" indicator row in the header of an	row in the header of an	applic
(TROW+)	<inlinetable>.</inlinetable>	<inlinetable>.</inlinetable>	able.

TEXT (Modifier schema)

Elem ent type	Construct	Modify	Deconstruct
1 ′′	TEXT element typeContainer for an INSET and STORY element.	Container for an INSET and STORY element.	Container for an INSET and STORY element.
Attribu	ıtes		
ANG LE CDA TA #IMP LIED	Specifies a rotation angle for text as a floating-point value between –360 degrees and 360 degrees.	Specifies a rotation angle for text as a floating-point value between –360 degrees and 360 degrees.	Indicates a rotation angle for text as a floating-point value between –360 degrees and 360 degrees.
SKE W CDA TA #IMP LIED	Specifies a skew angle for text as a floating-point value from –75 degrees to 75 degrees.	Specifies a skew angle for text as a floating-point value from –75 degrees to 75 degrees.	Indicates a skew angle for text as a floating-point value from –75 degrees to 75 degrees.
COL UMN S CDA	Specifies the number of columns in a text box.	Specifies the number of columns in a text box.	Indicates a number of columns in a text box.

Elem			
ent	Construct	Modify	Deconstruct
type			
TA			
#IMP			
LIED			
GUT			
TER			
WID	Specifies the width of the	Specifies the width of the	Specifies the width of the
TH	gutter(s) in a multi-column	gutter(s) in a multi-column	gutter(s) in a multi-column
CDA	text box.	text box.	text box.
TA			
#IMP			
LIED			
FLIPV			
ERTI			
CAL	771		T 10
1	Flips the text vertically in a	Flips the text vertically in a	Indicates the text is flipped
false	text box.	text box.	vertically in a text box.
none)			
"non			
e" FLIP			
HORI			
ZON			
TAL			
(true	Flips the text horizontally in	Flips the text horizontally in	Indicates the text is flipped
false	a text box.	a text box.	horizontally in a text box.
none)			
"non			
e"			
VERT			
ICAL			
ALIG			
NME			
NT			
(TOP			
CENT			
ERED	Vertically aliens the tout	Vertically aliene the to-t	Indicates the vertical
	Vertically aligns the text.	Vertically aligns the text.	alignment of text.
ВОТТ			
OM			
JUSTI			
FIED			
none)			
"non			
e"			
INTE	Specifies the space between	Specifies the space between	Specifies the space between
	<u> </u>		

Elem			
ent	Construct	Modify	Deconstruct
type			
RPAR	two consecutive paragraphs	two consecutive paragraphs	two consecutive paragraphs
AGR			
APH			
MAX			
CDA			
TA			
#IMP			
LIED			
	Specifies the minimum	Specifies the minimum	Indicates the minimum
FIRST	distance between the top	distance between the top	distance between the top
BASE	edge of a text box and the	edge of a text box and the	edge of a text box and the
LINE	baseline of the first line of	baseline of the first line of	baseline of the first line of
MIN	text.ASCENT = Specifies the	text.ASCENT = Specifies the	text.ASCENT = Specifies the
(ASC	distance based on the space needed for the accent mark of	distance based on the space needed for the accent mark of	distance based on the space needed for the accent mark of
ENT	the tallest	the tallest	the tallest
CAP	character.CAPHEIGHT=	character.CAPHEIGHT=	character.CAPHEIGHT=
HEIG	Specifies the distance based	Specifies the distance based	Specifies the distance based
HT	on the cap height of the	on the cap height of the	on the cap height of the
CAPA	tallest character.CAPACCENT	tallest character.CAPACCENT	tallest character.CAPACCENT
CCE	= Specifies the distance based	= Specifies the distance based	= Specifies the distance based
NT	on the cap height of the	on the cap height of the	on the cap height of the
none)	tallest character plus the	tallest character plus the	tallest character plus the
"non	space required for an accent	space required for an accent	space required for an accent
e"	mark over an uppercase	mark over an uppercase	mark over an uppercase
	character.	character.	character.
OFFS			
ET	Specifies the distance	Specifies the distance	Indicates the distance
CDA	between the first text baseline	between the first text baseline	between the first text baseline
TA	in the text box and the top	in the text box and the top	in the text box and the top
#IMP	inside edge of the text box.	inside edge of the text box.	inside edge of the text box.
LIED			
RUN			
TEXT			
ARO			
UND			
ALLSI	Indicates text runaround on	Indicates text runaround on	Indicates text runaround on
DES	all sides of an item.	all sides of an item.	all sides of an item.
(true			
false			
none) "non			
e"			
_			
TEXT	C	C	To Proceed to the control of the con
1	· .	Specifies how the text should	Indicates how the text is
NTAT	be attached to a line.	be attached to a line.	attached to a line.
ION			

Elem			
ent	Construct	Modify	Deconstruct
type			
(ROT			
ATE			
SKE			
W			
ROTA			
TEAN			
DSKE			
W			
NOR			
OTAT			
EAN			
DSKE			
W			
none)			
"non			
e"			
TEXT			
ALIG			
N			
(ASC			
ENT			
CENT			
ER	Specifies the part of a font to	Specifies the part of a font to	Indicates the part of a font
BASE	use for positioning characters	use for positioning characters	being used for positioning
LINE	on a line.	on a line.	characters on a line.
DESC			
ENT			
none)			
"non			
e" TEXT			
ALIG			
NWI			
THLI			
NE			
(TOP			
l'10r	Specifies how to align text to	Specifies how to align text to	Indicates text is aligned to a
CENT	_	a line.	line.
ER	a mic.	a mic.	inic.
BOTT			
OM			
none)			
"non			
e"			
	Fline the above to	Pline the above two	Indicates also sets
1	Flips the characters	Flips the characters	Indicates characters are
EXT	horizontally on a line.	horizontally on a line.	horizontally flipped on a line.

MODIFIER SCHEMA (ANNOTATED)

Elem ent	Construct	Modify	Deconstruct
type	Construct	Mouny	Deconstruct
(true			
false			
none)			
"non			
e"			
GRID			
STYL			
E	Identifies the grid style	Identifies the grid style	Identifies the grid style
I CIDA	applied to the text.	applied to the text.	applied to the text.
TA	applied to the text.	applied to the text.	applied to the text.
#IMP			
LIED			

TEXTATTRIBUTE (Modifier schema)

Element type	Construct	Modify	Deco nstru ct
TEXTATTRIB UTE (INSET)	TEXTATTRIBUTE element typeSpecifies the text-related attributes of a box created with the INLINEBOX element type.	Specifies the text-related attributes of a box created with the INLINEBOX element type.	Not appli cable
Attributes			
COLUMNS NMTOKEN #IMPLIED	Specifies the number of columns in a text box.	Specifies the number of columns in a text box.	Not appli cable
GUTTERWID TH NMTOKEN #IMPLIED	Specifies the width of the gutter(s) in a multi-column text box.	Specifies the width of the gutter(s) in a multi-column text box.	Not appli cable

TEXTNODEPH (Modifier schema)

Element type	Construct	Modify	Deconstruct
TEXTNOD EPH ((TEXTNO DEPH PARAGRA PH RICHTEX T OVERMAT	hierarchically on a region of text, and can contain further text node placeholders and text placeholders.	A text node placeholder allows metadata to be defined hierarchically on a region of text, and can contain further text node placeholders and text placeholders.	A text node placeholder allows metadata to be defined hierarchically on a region of text, and can contain further text node placeholders and

Element type	Construct	Modify	Deconstruct
TER TEXTPH)*, METADAT A?)			text placeholders.
Attributes			
NAME CDATA #REQUIRE D	The name of the text node placeholder. A placeholder name may not be Unique within the Box or XML Hierarchy.	The name of the text node placeholder. A placeholder name may not be Unique within the Box or XML Hierarchy.	The name of the text node placeholder. A placeholder name may not be Unique within the Box or XML Hierarchy.
OWNER (13476393 77) "1347639 377"	The XTensions ID of the XTensions that created this placeholder. The default XT ID is PlaceHolderSXT ID (1347639377). All placeholders created through Modifier should use this ID. This ID is assigned by default by the DTD, so there is no need to specify this manually. DTD validation will add this attribute.	The XTensions ID of the XTensions that created this placeholder. The default XT ID is PlaceHolderSXT ID (1347639377). All placeholders created through Modifier should use this ID. This ID is assigned by default by the DTD, so there is no need to specify this manually. DTD validation will add this attribute).	The XTensions ID of the XTensions that created this placeholder.

TEXTPH (Modifier schema)

Element type	Construct	Modify	Deconst ruct
TEXTP H ((PARA GRAPH RICHTE XT OVERM ATTER)* , METAD ATA?)	TEXTPH element typeA text placeholder allows metadata to be defined on a region of text.	A text placeholder allows metadata to be defined on a region of text.	A text placeho lder allows metadat a to be defined on a region of text.
Attribute	s		
NAME CDATA #REQUI RED	The name of the text node placeholder.	The name of the text node placeholder.	The name of the text node placeho

MODIFIER SCHEMA (ANNOTATED)

Element	Construct	Modify	Deconst
type	Construct	Wiodity	ruct
			lder.
	The XTensions ID of the XTensions	The XTensions ID of the XTensions	The
	that created this placeholder. The	that created this placeholder. The	XTensio
OWNER	default XT ID is PlaceHolderSXT ID	default XT ID is PlaceHolderSXT ID	ns ID of
	(1347639377). All placeholders created	(1347639377). All placeholders created	the
9377)	through Modifier should use this ID.	through Modifier should use this ID.	XTensio
1 ′	This ID is assigned by default by the	This ID is assigned by default by the	ns that
1	DTD, so there is no need to specify this	DTD, so there is no need to specify this	created
37377	manually. DTD validation will add this	manually. DTD validation will add this	this
	attribute.	attribute.	placeho
	attribute.	attribute.	lder.

TFOOT (Modifier schema)

Element type	Construct	Modify	Deconstr uct
TFOOT (TROW+)	TFOOT element typeIdentifies the footer portion of an <inlinetable>.</inlinetable>	Identifies the footer portion of an <inlinetable>.</inlinetable>	Not applicabl e.

THEAD (Modifier schema)

Element type	Construct	Modify	Deconstr uct
THEAD (TROW+, TCONTINUED?)	THEAD element typeIdentifies a header in an <inlinetable>.</inlinetable>	Identifies a header in an <inlinetable>.</inlinetable>	Not applicabl e.

TITLE (Modifier schema)

Element type	Construct	Modify	Deconstruct
TITLE	TITLE element typeNot	Specifies the title of an e-	Specifies the title of an e-
(#PCDATA)	applicable.	book.	book.

TOP (Modifier schema)

Elem ent type	Construct	Modify	Deconstruct
TOP (#PC DAT A)	Thetween the box or lines top edge	The distance between the box or lines top edge and the top of the page, in points.	The distance between the box or lines top edge and the top of the page, in points.

TOPGRID (Modifier schema)

			D
Elemen t type	Construct	Modify	ec o ns tr uc t
D (empty)	TOPGRID element typeDescribes a grid line on the top edge of a cell in an <inlinetable>.</inlinetable>	Describes a grid line on the top edge of a cell in an <inlinetable>.</inlinetable>	ot ap pli ca bl e.
Attribute TYPE	es I		\dashv
(TOP LEFT BOTTO M RIGHT) #IMPLI ED	Specifies the location of the grid line.	Specifies the location of the grid line.	ot ap pli ca bl e.
STYLE CDATA #IMPLI ED	Identifies the <tablestyle> that styles this grid line. If you specify this value, you do not have to specify the remaining attributes. If you specify the remaining attributes, those attribute values override the corresponding <tablestyle> values.</tablestyle></tablestyle>	Identifies the <tablestyle> that styles this grid line. If you specify this value, you do not have to specify the remaining attributes. If you specify the remaining attributes, those attribute values override the corresponding <tablestyle> values.</tablestyle></tablestyle>	ot ap pli ca bl e.
WIDTH CDATA #IMPLI ED	Specifies the width of the grid line in points.	Specifies the width of the grid line in points.	N ot ap pli ca bl e.
COLOR CDATA #IMPLI ED	Specifies the color of the grid line.	Specifies the color of the grid line.	N ot ap pli ca bl e.
SHADE CDATA #IMPLI ED	Specifies the shade of the grid line.	Specifies the shade of the grid line.	N ot ap pli

Elemen t type	Construct	Modify	D ec o ns tr uc t
			ca bl e. N
OPACIT Y CDATA #IMPLI ED	Specifies the opacity of the grid line.	Specifies the opacity of the grid line.	ot ap pli ca bl e.
GAPCO LOR CDATA #IMPLI ED	Specifies the color of the gap (if any) between the lines that make up the grid line.	Specifies the color of the gap (if any) between the lines that make up the grid line.	N ot ap pli ca bl e.
GAPSH ADE CDATA #IMPLI ED	Specifies the shade of the gap (if any) between the lines that make up the grid line.	Specifies the shade of the gap (if any) between the lines that make up the grid line.	N ot ap pli ca bl e.
GAPOP ACITY CDATA #IMPLI ED	Specifies the opacity of the gap (if any) between the lines that make up the grid line.	Specifies the opacity of the gap (if any) between the lines that make up the grid line.	N ot ap pli ca bl e.

TROW (Modifier schema)

Element type	Construct	Modify	Decons truct		
TROW (TOPGRID?, BOTTOMGRID?, ENTRY*)	TROW element typeDescribes a row in an <inlinetable>.</inlinetable>		Not applica ble.		
Attributes					
COLOR CDATA #IMPLIED	Identifies the background color of the cells in the	Identifies the background color of the cells in the	Not applica		

Element type	Construct	Modify	Decons truct
	<trow>.</trow>	<trow>.</trow>	ble.
	Identifies the background	Identifies the background	Not
SHADE CDATA #IMPLIED	shade of the cells in the	shade of the cells in the	applica
	<trow>.</trow>	<trow>.</trow>	ble.
STORYDIRECTION (HORIZONTAL VERTICAL) #IMPLIED	Specifies the story direction of the cells in the <trow>.</trow>	Specifies the story direction of the cells in the <trow>.</trow>	Not applica ble.
ANGLE	Specifies the angle of the row	Specifies the angle of the row	Not applica ble.
VALIGN	Specifies the vertical alignement of the row	Specifies the vertical alignement of the row	Not applica ble.
ALIGNMENT	Specifies the alignment of the row	Specifies the alignment of the row	Not applica ble.
ROWHEIGHT	Specifies the height of the row	Specifies the height of the row	Not applica ble.

TROWSTYLE (Modifier schema)

Element type	Construct	Modify	Deco nstruc t
TROWSTYLE (TOPGRID?, BOTTOMGRID?)	TROWSTYLE element typeDefines a style for rows in an <inlinetable>.</inlinetable>	Defines a style for rows in an <inlinetable>.</inlinetable>	Not applic able.
Attributes			
PARASTYLE CDATA #IMPLIED	Identifies the paragraph style sheet for the row style.	Identifies the paragraph style sheet for the row style.	Not applic able.
ALIGNMENT (LEFT RIGHT CENTER JUSTIFIED FORCED) #IMPLIED	Identifies the paragraph alignment for the row style.	Identifies the paragraph alignment for the row style.	Not applic able.
ANGLE CDATA #IMPLIED	Identifies the text angle for the row style.	Identifies the text angle for the row style.	Not applic able.
VALIGN (TOP CENTER BOTTOM) #IMPLIED	Specifies the vertical alignment of the row style.	Specifies the vertical alignment of the row style.	Not applic able.
COLOR CDATA #IMPLIED	Specifies the background color of the row style.	Specifies the background color of the row style.	Not applic able.
SHADE CDATA #IMPLIED	Specifies the background shade of the row style.	Specifies the background shade of the row style.	Not applic able.

MODIFIER SCHEMA (ANNOTATED)

			Deco
Element type	Construct	Modify	nstruc
			t
	Specifies the text inset for all	Specifies the text inset for	Not
INSET CDATA #IMPLIED	four sides of cells that use the	all four sides of cells that	applic
	row style.	use the row style.	able.

VALUE (Modifier schema)

Ele			
me	Construct	Modific	Deconstruct
nt ty	Construct	Modify	Deconstruct
pe			
VA	71 - 1	⁼	Specifies the VALUE of the
LU E	VALUE of the key/value pair. The value can be given in CDATA	key/value pair. The value can be given in CDATA form	key/value pair. The value can be given in CDATA form
(#	form only, such	only, such	only, such
PC D	as: <metadata><value KEY="myKey"></value </metadata>	as: <metadata><value KEY="myKey"></value </metadata>	as: <metadata><value KEY="myKey"></value </metadata>
AT	METADATAVALUE	METADATAVALUE]</td><td><![CDATA[METADATAVALUE]</td></tr><tr><td>A) Attr</td><td></VALUE></METADATA> ibutes</td><td>]> </VALUE></METADATA></td><td>]> </VALUE></METADATA></td></tr><tr><td>KE Y C D AT A #R EQ UI</td><td>Specifies the KEY attribute of the key/value pair.</td><td>Specifies the KEY attribute of the key/value pair. Metadata that contains a value for KEY but no value for VALUE will delete any metadata matching the value for KEY.</td><td>Specifies the KEY attribute of the key/value pair.</td></tr><tr><td>RE D</td><td></td><td></td><td></td></tr></tbody></table>	

VERTEX (Modifier schema)

Element type	Construct	Modify	Deconstruct
VERTEX (LEFTCONTROLPOINT ?, VERTEXPOINT, RIGHTCONTROLPOIN T?)	VERTEX element typeA single vertext (i.e. Line segment) in a bezier curve.	A single vertext (i.e. Line segment) in a bezier curve.	A single vertext (i.e. Line segment) in a bezier curve.
Attributes			
SMOOTHVERTEX (true false) "false"	Specifies whether the given vertex is "straight" — i.e. C1 continuous.	Specifies whether the given vertex is "straight" — i.e. C1 continuous.	Specifies whether the given vertex is "straight" — i.e. C1 continuous.

Element type	Construct	Modify	Deconstruct
STRAIGHTEDGE (true	Specifies whether the	Specifies whether the	Specifies whether the
· '	following edge is	following edge is	following edge is
false) "false"	"straight".	"straight".	"straight".
	Specifies whether the	Specifies whether the	Specifies whether the
SYMMVERTEX (true	given vertex is also	given vertex is also	given vertex is also
false) "false"	symmetrical — i.e., C2	symmetrical — i.e., C2	symmetrical — i.e., C2
	continuous.	continuous.	continuous.
CUSPVERTEX (true	Specifies whether the	Specifies whether the	Specifies whether the
false) "false"	vertex is not smooth or	vertex is not smooth or	vertex is not smooth or
Taise) Taise	symmetric.	symmetric.	symmetric.
TWISTED (true false)	Specifies whether the	Specifies whether the	Specifies whether the
"false"	following (splined)	following (splined)	following (splined)
laise	edge intersects itself.	edge intersects itself.	edge intersects itself.
VERTEXSELECTED	Specifies whether the	Specifies whether the	Specifies whether the
(true false) "false"	given vertex is selected.	given vertex is selected.	given vertex is selected.

VERTEXPOINT (Modifier schema)

El e m en t ty pe	Construct	Modify	Deconstruct
V ER TE X P OI N	VERTEXPOINT element typeEach point on a curve is described by three geometric positions: the x,y coordinate of the vertex point (this coordinate is relative to the bounding geometry of the shape, not the page), and the left and right control handles—as you would see onscreen in the QuarkXPress	Each point on a curve is described by three geometric positions: the x,y coordinate of the vertex point (this coordinate is relative to the bounding geometry of the shape, not the page), and the left and right control handles—as you would see onscreen in the QuarkXPress	Each point on a curve is described by three geometric positions: the x,y coordinate of the vertex point (this coordinate is relative to the bounding geometry of the shape, not the page), and the left and right control handles—as you would see onscreen in the QuarkXPress
(e m pt y)	user environment. For more information on drawing and manipulating bezier curves, please see A Guide to QuarkXPress.	user environment. For more information on drawing and manipulating bezier curves, please see A Guide to QuarkXPress.	user environment. For more information on drawing and manipulating bezier curves, please see A Guide to QuarkXPress.

VERTICES (Modifier schema)

Element type	Construct	Modify	Deconstruct
VERTIC	VERTICES element typeA collection	A collection of vertexes	A collection of vertexes
ES	of vertexes which, combined, make	which, combined, make	which, combined, make

MODIFIER SCHEMA (ANNOTATED)

Element type	Construct	Modify	Deconstruct
(VERTE X+)	up a contour.	up a contour.	up a contour.

WIDTH (Modifier schema)

Element type	Construct	Modify	Deconstruct
WIDTH	WIDTH element typeIndicates the	Indicates the width of	Indicates the width of
(#PCDATA)	width of an item.	an item.	an item.

XREF (Modifier schema)

Element type	Construct	Modify	Deconstruct
	XREF element	XREF element	XREF element
	typeThe XREF	typeThe XREF	typeThe XREF
XREF (#PCDATA)	element is used to	element is used to	element is used to
	describe cross	describe cross	describe cross
	references.	references.	references.
Attributes			
XREFSTYLE (REFNOTENUMBER			
PAGENUMBER			
FORMATTEDREFNOTENUMBER	Specifies the type of	Specifies the type of	Specifies the type of
PARANUMBERWITHOUTCONTE	Specifies the type of cross reference.	Specifies the type of cross reference.	Specifies the type of cross reference.
XT	cross reference.	cross reference.	cross reference.
PARANUMBERWITHCONTEXT			
BODYTEXT)			
HREF CDATA #IMPLIED			
HYPERLINK (true false) "true"	Indicates whether	Indicates whether	Indicates whether
	or not the hyperlink	or not the hyperlink	or not the hyperlink
	is enabled/disabled	is enabled/disabled	is enabled/disabled
	in the PDF output.	in the PDF output.	in the PDF output.
	Indicates whether	Indicates whether	Indicates whether
	the text above and	the text above and	the text above and
INCLUDEABOVEBELOW (true false) "false"	below the text	below the text	below the text
	should be included	should be included	should be included
	in the cross	in the cross	in the cross
	reference scope.	reference scope.	reference scope.
SEPARATOR CDATA #IMPLIED	Identifies the text to	Identifies the text to	Identifies the text to
	be used as the	be used as the	be used as the
	separator.	separator.	separator.
CHARSTYLE CDATA #IMPLIED	Identifies a	Identifies a	Identifies a
	character style sheet	character style sheet	character style sheet
	to be applied to the	to be applied to the	to be applied to the
	cross reference.	cross reference.	cross reference.

Using SSL

You can configure QuarkXPress Server with different security options. In addition to your own network security specifications, you can specify Secure Sockets Layer (SSL) protocol for client applications.

Secure Sockets Layer (SSL) support

You can configure Tomcat (and therefore all QuarkXPress Server clients) to run in secure mode with Secure Sockets Layer (SSL) technology. This section explains the configuration process.

→ It is also possible to run QuarkXPress Server without embedding Tomcat in the JVM. For more information, see the QuarkXPress Server *ReadMe* file.

To manage Web applications in the QuarkXPress Server environment, QuarkXPress Server embeds an instance of Apache Tomcat 6.18 in its JVM.

When you enable SSL, it applies to all QuarkXPress Server client applications.

Enabling SSL

The instructions below address two scenarios. The "server.xml" file you edit contains XML tags for both scenarios, which you need to enable or disable by "commenting" and "uncommenting" specific tags.

To enable SSL for secure HTTP for all QuarkXPress Server applications:

- 1. Open the "conf" folder in your QuarkXPress Server folder.
- **2.** Open "server.xml" in a text-editing application.
- 3. Locate the following tag (preceded by the comment <!- Define a non-SSL HTTP/1.1 Connector on port 8080 ->) and comment it out.

```
<Connector port="8080" maxHttpHeaderSize="8192"
maxThreads="150" minSpareThreads="25" maxSpareThreads="75"
enableLookups="false" redirectPort="61399" acceptCount="100"
connectionTimeout="20000" disableUploadTimeout="true"
URIEncoding="UTF-8"/>
```

4. Locate the following tag (preceded by the comment <!- Define a SSL HTTP/1.1 Connector on port 61399 ->) and uncomment it.

```
<Connector port="61399"
maxHttpHeaderSize="8192"MaxThreads="150" minSpareThreads="25"
maxSpareThreads="75"enableLookups="false"
disableUploadTimeout="true"acceptCount="100" scheme="https"
secure="true"clientAuth="false" sslProtocol="TLS" />
```

- **5.** Replace 61399 with 61400 (or any port on which Tomcat will be listening for secure connections).
- 6. Save and close "server.xml."
- **7.** Open the "ServerApp.properties" file (in the "conf" folder) and enter the port number from step 5 for <code>qxpswebserver.port</code>.
- → This change means QuarkXPress Server client applications can use HTTPS. For example, the URL for a QuarkXPress Server user would be as follows:

```
https://[server name]:[port]/.
```

Enabling HTTP and HTTPS

To enable HTTP and HTTPS:

- 1. Open the "conf" folder in your QuarkXPress Server folder.
- **2.** Open "server.xml" in a text-editing application.
- **3.** Uncomment the following tag:

```
<Connector port="61399"
maxHttpHeaderSize="8192"MaxThreads="150" minSpareThreads="25"
maxSpareThreads="75"enableLookups="false"
disableUploadTimeout="true"acceptCount="100" scheme="https"
secure="true"clientAuth="false" sslProtocol="TLS" />
```

- **4.** Save and close "server.xml."
- This feature allows QuarkXPress Server application users to access QuarkXPress Server with HTTPS or HTTP.

Verifying and using SSL

To verify and use SSL:

- 1. Start the QuarkXPress Server
- **2.** Test QuarkXPress Server access by navigating to the QuarkXPress Server Web interface HTTPS. For example: https://[server]:[port]/qxpsadmin

Keystores and SSL certificates

A *certificate* is a file on a Web server that is used in encryption and confirmation between two endpoints to establish a secure connection. A *keystore* is essentially a database of digital certificates on the Web server.

You can obtain an SSL certificate from a trusted Certificate Authority (CA). Import the certificate into the keystore used by QuarkXPress Server's JVM.

For more information about the importance of keystores, use the following URL: http://tomcat.apache.org/tomcat-6.0-doc/ssl-howto.html.

QuarkXPress Server 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.

CopyDeskArticle XTensions software

CopyDeskArticle XTensions software allows QuarkXPress Server to do the following things:

- Render QuarkCopyDesk articles
- Export QuarkCopyDesk articles from a QuarkXPress project
- Add a QuarkCopyDesk article to an existing QuarkXPress project
- Create and delete components in a QuarkCopyDesk article within a QuarkXPress project

Rendering articles

To render QuarkCopyDesk articles, use the copydesk namespace, as follows:

```
http://[server]:[port]/[render type]/copydesk/[articlename]
```

For example, to render "Article.qcd" as a PDF file, you could use a URL like the following:

http://QXPServer.8080/pdf/copydesk/Article.qcd

Exporting articles

To export an article from a QuarkXPress project, use the QCDDOC namespace, as follows:

```
http://[server]:[port]/qcddoc/[project name]?article=[article
name or ID]
```

For example, to export the article named "Article1" from the project named "Project1.qxp," you could use a URL like the following:

http://QXPServer.8080/qcddoc/Project1.qxp?article=Article1

You cannot export an article from a QuarkXPress project unless the article has been created and named in QuarkXPress using CopyDeskArticleXT XTensions software.

To export an article in a particular format, use the format parameter.

- To export a standard article, use format=fullfeatured.
- To export an article in lightweight mode, use format=lightweight. This format can be useful in situations where file size is an issue. The lightweight file format includes only those items that a QuarkCopyDesk user is supposed to work on.

For example:

```
http://QXPServer.8080/qcddoc/Project1.qxp?article=Article1?format = lightweight
```

→ You cannot export page pictures in lightweight mode.

Adding articles to projects

You can use Modifier XTensions software to create a QuarkCopyDesk article within an existing QuarkXPress project. For example, to add an article named "New Article" to the project named "Project1.qxp," you could use XML like the following:

```
<PROJECT PROJECTNAME="Project1.qxp" XMLVERSION="8.0">
<LAYOUT POINTSPERINCH="72">
<ID NAME="Layout 1" UID="1"/>
<ARTICLE OPERATION="CREATE" DOCFORMAT="FULLFEATURED">
<ID NAME="New Article" UID="4"/>
<RGBCOLOR BLUE="98" GREEN="254" RED="0"/>
<COMPONENT BOXNAME="Box1" BOXUID="1" COMPONENTCLASS="CT_TEXT"
NAME="Component 1" UID="1"/>
</ARTICLE>
</LAYOUT>
</PROJECT>
```

For more information, see "Web integration."

Creating and deleting components

You can use Modifier XTensions software to create and delete components in QuarkCopyDesk articles. For example, to add a component named "New Component" to the article named "Article 1" in the project named "Project1.qxp," you could use XML like the following:

```
<PROJECT JOBJACKET="Project1 Job Jacket" JOBTICKET="Default Job
Ticket 1:Project1"
PROJECTNAME="Project1.qxp" XMLVERSION="8.0">
<LAYOUT POINTSPERINCH="72">
<ID NAME="Layout 1" UID="1"/>
<ARTICLE DOCFORMAT="FULLFEATURED">
<ID NAME="Article 1" UID="1"/>
<COMPONENT OPERATION="CREATE" BOXUID="9" COMPONENTCLASS="CT_TEXT"
NAME="New Component"/>
</ARTICLE>
</LAYOUT>
</PROJECT>
```

To delete the component named "New Component" from the article named "Article1.qcd," you could use XML like the following:

QUARKXPRESS SERVER XTENSIONS SOFTWARE

```
<PROJECT JOBJACKET="Project1 Job Jacket" JOBTICKET="Default Job</pre>
Ticket 1:Project1"
PROJECTNAME="Project1.qxp" XMLVERSION="8.0">
<LAYOUT POINTSPERINCH="72">
<ID NAME="Layout 1" UID="1"/>
<ARTICLE DOCFORMAT="FULLFEATURED">
<ID NAME="Article 1" UID="1"/>
<COMPONENT OPERATION="DELETE" NAME="New Component"/>
</ARTICLE>
</LAYOUT>
</PROJECT>
```

For more information, see "Web integration."

PDF Filter XTensions software

PDF Filter XTensions software allows QuarkXPress Server to render a QuarkXPress project as a PDF file. 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]
```

For information about PDF preferences, see "Preferences — PDF." To take advantage of more detailed preferences, create a PDF output style and use that output style when rendering projects as PDF files.

For information about the parameters for exporting in this format, see "Web integration."

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)
- Create and delete pages
- Create and delete layers
- Move items within layers
- Create and delete tables
- Modify tables and their contents
- Create QuarkCopyDesk articles and components

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- Create lines, anchored boxes, and Bézier boxes
- · Create lists
- Group and ungroup boxes
- Divide layouts into sections

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.

For more specific information about Modifier XTensions software, and for the Modifier DTD, see "Web integration."

- → 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.

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."
- **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:[abs
olute path to XML file on server or relative path to XML file
on server relative to the document pool]

• Put the XML in the URL, as follows:

http://[server]:[port]/[namespace]/path/projectname?modify=[XM
L 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 Modifier DTD. This DTD is documented in full in "Modifier DTD (annotated)."

In general, the structure for addressing items in a particular layout is as follows:

```
<PROJECT>
<LAYOUT>
<ID NAME="
```

```
[name of layout]
[Item being addressed]
[Parameters of item]
[Item being addressed]
</LAYOUT>
</PROJECT>
```

For more information, see "Web integration."

Layer XTensions software

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.

Clients can use the layer parameter to specify a layer (even a hidden layer) to be rendered. For example, the URL

http://QXPServer: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://QXPServer:8080/doc.qxp?layer=layer1, layer2 renders the layers named "layer1" and "layer2."

For information about layer preferences, see "Preferences — Layers."

➡ If **Suppress Output** is selected for a layer, QuarkXPress Server does not render that layer when producing PDF, EPS, or PostScript files.

InteractiveDesigner Server XTensions software

InteractiveDesigner XTensions software allows QuarkXPress Server to render both Print and Interactive layouts in QuarkXPress projects as SWF (Flash) files. If you render a Print layout as an SWF file, you can use the right and left arrow keys to navigate between pages in the SWF file.

To render an Interactive layout in a QuarkXPress project as a SWF file when SWF is not the QuarkXPress Server default render type, use the SWF namespace, as follows:

```
http://[server]:[port]/swf/[projectname]?layout="[layoutname]"
```

For information about the parameters for exporting in this format, see "Web integration."

App Studio XTensions software

The App Studio XTensions modules allow QuarkXPress Server to render Print and App Studio layouts in QuarkXPress projects as AVE issue files.

In QuarkXPress 9.5.1.1, an option was added to allow the App Studio output to convert sections to page stacks. A new URL parameter

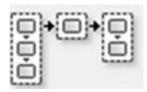
convertsectionstopagestacks has been added to provide this ability.

The XML example below demonstrates how to apply sections using the ModifierXML:

<PAGESEQUENCE MASTERREFERENCE="APSMasterPages"
FORCEPAGECOUNT="NOFORCE">
SECTIONNUMBERFORMAT FORMAT="NUMERIC" INITIALPAGENUMBER="1"/>

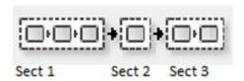
The element SECTIONNUMBERFORMAT creates a section start which applied to all pages in the page sequence. Each PAGESEQUENCE could have its own SECTIONNUMBERFORMAT.

If the modify request is sent to the server and each PAGESEQUENCE in the ModifyXML has its own SECTIONNUMBERFORMAT, creating sections, and the URL parameter contains convertsectionstopagestacks=true, the digital issue navigation would be as follows:



Sect 1 Sect 2 Sect 3

If the URL parameter contains converts ections to page stacks = false, the digital issue navigation would be as follows:



⇒ By default, convertsectionstopagestacks is false.

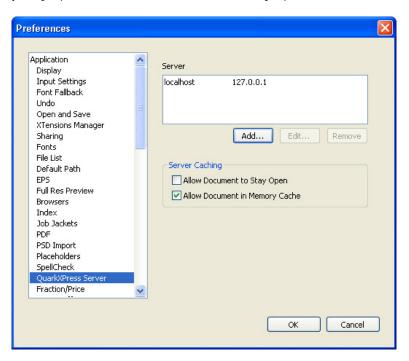
Telegraph XTensions software

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.

These topics explain 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.



QuarkXPress Server pane of Preferences dialog box (QuarkXPress/Edit menu)

For information on adding a server, see "Adding a server."

To edit the properties of a server in the **Server** list, select the server name and then click **Edit**.

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To remove a server from the **Server Setup** list, select the server and then click **Remove**.

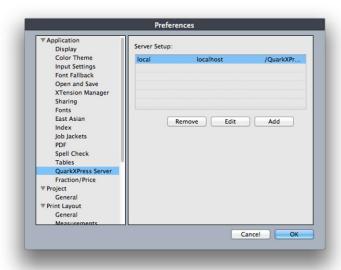
To allow projects checked in from this copy of QuarkXPress to remain open on the server after it has been served, check **Allow Document to Stay Open**.

To load projects checked in from this copy of QuarkXPress into the server memory cache, check **Allow Document in Memory Cache**.

Specifying a server for template upload

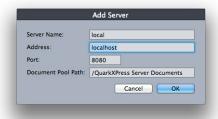
Before you can upload a template to a server with Telegraph XTensions software, you must add that server to the QuarkXPress preferences. To do so:

- 1. Choose QuarkXPress/Edit > Preferences. The Preferences dialog box displays.
- **2.** Click **QuarkXPress Server** in the list on the left. The **QuarkXPress Server** pane displays.



QuarkXPress Server pane of Preferences dialog box

3. Click Add. The Add Server dialog box displays.



Add Server dialog box

- **4.** Enter a human-readable name for the server in the **Server Name** field.
- 5. Enter the server's name or IP address in the Address field.
- **6.** Enter the server's port number in the **Port** field. The default port number is 8080. Valid values are from 1 to 65535.

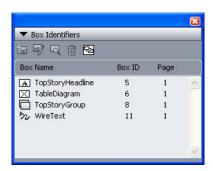
- 7. In the Document Pool Path field, enter the path to the document pool directory on the server, or to a subdirectory within the document pool. If you leave this field blank, the path defaults to the document pool directory path specified in the QuarkXPress Server Document Root field (QuarkXPress Server > 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.
- **8.** Click **OK**, then close the **Preferences** dialog box.

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 and groups

The Box Identifiers palette lets you associate names with items and groups. To display this palette, choose Window > Box Identifiers.



Box Identifiers palette

To edit the name of an item or group, select its name in the Box Identifiers palette and then click Edit Box Name.

To scroll to the location of a named item or group, double-click the target item or group's name in the Box Identifiers palette. Alternatively, you can select the name and click Go To .

To delete an item's or group's name (without deleting the item or group itself), select the name in the **Box Identifiers** palette and then click **Delete**.

To make sure that all named boxes display in the Box Identifiers palette, click Populate Named Boxes 걸.

Each QuarkXPress item also has an identification number that you can use when you want to render individual project items in QuarkXPress Server. The number displays in the 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 Box ID number.

Naming items and groups

To specify a name for an item or group:

- 1. Using the Item tool, select the target item or group.
- 2. In the Box Identifiers palette, click New Box Name dialog box displays.



New Box Name dialog box

- 3. Enter a name for the item or group in the Box Name field.
- **4.** Click **OK**. The name of the item or group displays on the **Box Identifiers** palette, next to the item's item ID and page number.
- ➡ In addition to items on layout pages, you can also name items on master pages.

 Items on layout pages that are based on items on master pages have a default name of "<Item name on master page><New box UID>"

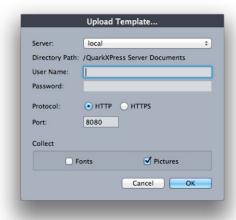
Uploading templates

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.

- QuarkXPress Server automatically generates any file hierarchy necesary when you upload content to the document pool from Telegraph XTensions software.
- → You must have Telegraph XTensions software 10.0 or later to upload templates to QuarkXPress Server 9.0 or later. (You can use previous versions of Telegraph with previous versions of QuarkXPress, but if you do so you must upload projects to the server using the document pool upload capability in the QuarkXPress Server Web interface.)
- This feature does not upload assets that are used in App Studio AVE interactivity. You must upload such assets manually.

To upload the active project:

- 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.



Upload Template dialog box

- **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, choose Administration > Preferences > General in the QuarkXPress Server Web interface, check Authenticate for Admin Requests box and enter a user name and password.
- **5.** To indicate which protocol to use for uploading, click HTTP or HTTPS.
- **6.** Enter the port for QuarkXPress Server in the **Port** field.
- **7.** To collect and upload fonts used by the project, check **Fonts**.
- **8.** 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."
- 9. 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.

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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.

QuarkXPress Server Manager

QuarkXPress Server Manager is a server application that efficiently routes rendering requests in an environment that uses one or more QuarkXPress Server applications. QuarkXPress Server Manager uses load-balancing methods to determine which server in the QuarkXPress Server pool can best process a document request, and uses caching to improve speed and efficiency. QuarkXPress Server Manager also provides failsafe capability by reliably resubmitting failed requests, either to the same QuarkXPress Server instance or to a different one (depending on the error message returned by the server instance).

QuarkXPress Server does not require QuarkXPress Server Manager, but a QuarkXPress Server Manager server can coordinate multiple QuarkXPress Server applications so that they work together with maximum speed, reliability, and availability.

QuarkXPress Server Manager also provides a Web services interface that allows developers to use QuarkXPress Server features without having to use the HTTP interface.

To configure a QuarkXPress Server Manager server application, you must use the QuarkXPress Server Manager Web client. The topics below explain how the QuarkXPress Server Manager Web client works and provide examples for using it.

Understanding QuarkXPress Server Manager

Before you begin, take time to review the topics below so that you understand how this chapter is structured and how you can get the most out of it.

Load balancing

Load balancing ensures that each rendering request is sent to a server that is likely to be able to handle it quickly. QuarkXPress Server Manager lets you use choose from three load-balancing settings:

Dynamic Load Balancer: The QuarkXPress Server Manager server considers file
size and throughput requirements for each request. For example, assume the
following series of requests is sent to QuarkXPress Server Manager in an
environment that uses two QuarkXPress Server instances:

Request	Size
1	8MB
2	1MB
3	2MB

- Random Load Balancer: Each rendering request is sent to a random server.
- Round-robin Load Balancer: Requests are sent to servers in a set order. For
 example, if you have three QuarkXPress Server instances and QuarkXPress Server
 Manager receives ten rendering requests, the requests are distributed as follows:

Request	QuarkXPress Server instance used
1	1
2	2
3	3
4	1
5	2
6	3
7	1

The first request is assigned to server #1, and the second request is assigned to server #2. When the third request arrives, QuarkXPress Server Manager checks the loads that the two servers are already handling and assigns the task to the server with the smallest load — in this case, server #2.

If a request fails because a server stops responding or because of a "File Not Found" error, QuarkXPress Server Manager does not resubmit that request to that server.

→ The **Dynamic** setting is typically the most efficient setting for environments with more than one QuarkXPress Server instance.

For information about choosing a load-balancing setting, see "Controlling load balancing." Developers can implement their own load-balancing systems; for more information, see "Web integration."

Request timeout interval

QuarkXPress Server Manager attempts to send each request to a QuarkXPress Server instance that can promptly handle that request. However, in some situations a QuarkXPress Server instance might be unable to process a request in a reasonable amount of time (for example, if the server is working on a large rendering job, or if the server computer has stopped functioning). If you specify a certain period of time as the request timeout interval, QuarkXPress Server Manager will wait for the response until that period of time elapses, and then send the request to a different QuarkXPress Server instance. This ensures that a request does not get "lost" if its assigned QuarkXPress Server instance does not become available promptly.

For information about setting a request timeout interval, see "Using other global settings."

➡ If a client request fails despite being sent to multiple QuarkXPress Server instances, QuarkXPress Server sends the end user a customizable error message or exception so that the end user can appropriately handle the failure. A QuarkXPress Server Manager server can also automatically send e-mail to an administrator in the event of a problem; for more information, see "Generating automatic e-mail messages."

Determining QuarkXPress Server instance availability

QuarkXPress Server Manager uses two methods to determine the availability of a QuarkXPress Server instance: ping and ping document.

Ping

QuarkXPress Server Manager periodically sends a ping request to all of its QuarkXPress Server instances to determine whether they are available. Ping requests use the following format:

http://[Server]:[Port]/getprocessid

Ping document

QuarkXPress Server Manager periodically sends a render request to all of its QuarkXPress Server instances to determine whether they can render a document. Ping document requests use the following format:

```
http://[Server]:[Port]/[PingDocumentName.gxp]
```

You can specify the document to be used for this render request. To avoid long ping document rendering times, use a simple document.

You can specify the interval between pings and ping documents in the Other Settings pane in the Global Settings pane of the QuarkXPress Server Manager window (see "Using other global settings").

Logging with QXP Server Manager

QuarkXPress Server Manager logs all interactions with QuarkXPress Server instances. QuarkXPress Server Manager log files contain the following information:

- Render requests
- QuarkXPress Server responses
- Information about events (such as alerts) that occur during the render-request process
- Details about requests that were sent to a different QuarkXPress Server instance after the first assigned QuarkXPress Server instance was unable to process the request

Within the logs, each QuarkXPress Server instance is identified by its IP address and port number.

You can export log files in XML (Extensible Markup Language) or comma-separated values (CSV) format. For more information, see "Exporting log files."

Caching

To increase speed and efficiency, QuarkXPress Server Manager caches information in memory. If the response to a render request, URL request, or file request is included in the QuarkXPress Server Manager memory cache, QuarkXPress Server Manager

returns the response from the disk cache instead of sending the request to a QuarkXPress Server instance. For more information, see "Managing the cache."

- Requests that contain a binary parameter and multipart responses are not cached, regardless of whether global caching or command-specific caching is enabled.
- → When the QuarkXPress Server Manager server application receives response data from a QuarkXPress Server instance, QuarkXPress Server Manager can return that response directly or write it as a file and return the file's URL. The second approach maximizes efficiency for SOAP-based clients, because SOAP transfers binary data very slowly. Cached response files have names that begin with "TMP_", and they are removed when they reach the age specified in the cache settings (see "Managing the cache"). QuarkXPress Server Manager uses the cache file this way regardless of whether caching is turned on or off; however, you can override this behavior by setting the responseasurl parameter to false for every request.

Web services

QuarkXPress Server Manager provides a Web services interface that makes it easy for developers to create applications that use QuarkXPress Server. This Web services interface provides the same functionality that is available through the QuarkXPress Server HTTP interface. For more information about the Web services interface, see "Web integration."

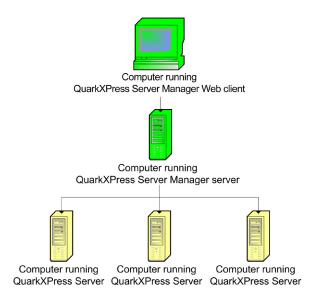
Working with QuarkXPress Server Manager

The general process for using QuarkXPress Server Manager is as follows:

- 1. Install QuarkXPress Server Manager software.
- 2. Launch one or more QuarkXPress Server instances on your network.
- **3.** Launch the QuarkXPress Server Manager Console server application (see *Starting the Manager server application*").
- **4.** Launch the QuarkXPress Server Manager Web client (see *Starting the Manager client application*").
- **5.** Use the **Manage Servers** pane to add QuarkXPress Server instances, specify information about those servers (see "Configuring QuarkXPress Server instances"), and choose a load-balancing method (see "Controlling load balancing").
- **6.** Configure proxy server settings, automatic e-mail settings, and various other settings in the **Global Settings** pane (see "Using a proxy server," "Generating automatic e-mail messages," and "Using other global settings").
- **7.** As necessary, delete cache items and clear the QuarkXPress Server Manager server cache using the **Manage Cache** pane (see "Managing the cache").

Starting QuarkXPress Server Manager

Each QuarkXPress Server Manager server can handle multiple QuarkXPress Server instances.



QuarkXPress Server Manager diagram

Starting the Manager server application

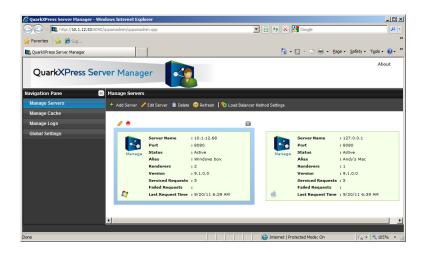
To launch the QuarkXPress Server Manager server application:

- Mac OS: Open the QuarkXPress Server Manager/Server folder inside the applications folder and double-click "QXPSMServerStart.command."
- Windows (if you have not installed QuarkXPress Server Manager as a service): Choose
 Start > Programs > QuarkXPress Server Manager 9 > Start QuarkXPress
 Server Manager. Alternatively, open the "Server" folder in the QuarkXPress
 Server Manager application folder and double-click the "QXPSMServerStart.bat"
 file as an admnistrator.

You can access API documentation in HTML format by navigating to http://[server]:[port], where [server] identifies the computer on which QuarkXPress Server Manager is running and [port] identifies the port it is running on.

Starting the Manager Web client

To launch the QuarkXPress Server Manager Web application, click **Open Admin Client** on the QuarkXPress Server Manager home page. The QuarkXPress Server Manager administration Web client displays.



The QuarkXPress Server Manager Web client

Request handler binding

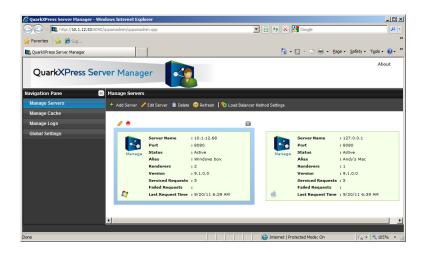
When you add a QuarkXPress Server instance to QuarkXPress Server Manager, you can choose to bind that server instance to particular rendering type or request type. When QuarkXPress Server Manager receives a matching request, it will send the request to only those server instances that are bound to that rendering type or request type. If multiple server instances are bound to a particular rendering type or request type, QuarkXPress Server Manager balances the load of such requests between the server instances.

An instance of QuarkXPress Server Manager that is not bound to any specific type of request is called a *generic server*. If a request is not bound to a particular server instance, QuarkXPress Server Manager sends that request to a generic server. If more than one generic server is available, QuarkXPress Server Manager balances the load of such requests between them.

You can bind a server to more than one rendering type or request type.

Configuring QuarkXPress Server instances

The Manage Servers pane lists the QuarkXPress Server instances the QuarkXPress Server Manager server is handling. You can use this pane to add QuarkXPress Server instances, edit the description of existing QuarkXPress Server instances, delete QuarkXPress Server instances, and choose a load balancing method.



Manage Servers pane

→ To configure an individual QuarkXPress Server instance, click Manage under the icon for that instance. The QuarkXPress Server Web interface for that instance displays.

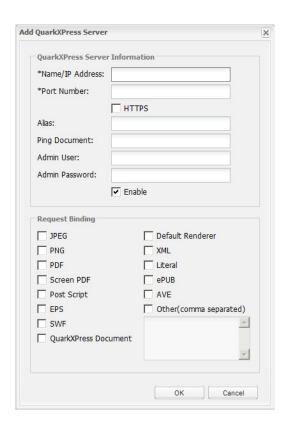
Adding and enabling a QuarkXPress Server instance

When you add and enable a QuarkXPress Server instance in the Manage Servers pane of the QuarkXPress Server Manager interface, the QuarkXPress Server Manager server begins routing rendering requests to that QuarkXPress Server instance.

➡ If you add and enable a QuarkXPress Server instance in this pane, be sure that clients are no longer sending rendering requests directly to that QuarkXPress Server instance; otherwise, the server will be handling both direct requests and routed requests, and the server might become overly busy. Note also that requests sent directy to such a QuarkXPress Server instance do not benefit from QuarkXPress Server Manager features such as load balancing, caching, and logging.

To add and enable a QuarkXPress Server instance:

- **1.** Display the **Manage Servers** pane of the **QuarkXPress Server Manager** interface.
- 2. Click Add Server. The Add QuarkXPress Server dialog box displays.



Add QuarkXPress Server dialog box

- Enter the QuarkXPress Server instance's DNS name or IP address in the Name/IP Address field.
- **4.** Enter the QuarkXPress Server instance's port number in the **Port Number** field.
- **5.** If the QuarkXPress Server instance is running with the HTTPS protocol, check **HTTPS**
- **6.** To specify an alternate name for the server, enter a value in the **Alias** field. The **Alias** value displays in the **Manage Servers** pane of the **QuarkXPress Server Manager** interface.
- 7. If you choose to use a particular ping document for this server (see "Ping document"), make sure the project file is in the QuarkXPress Server instance's document pool and then enter the project's file name in the Ping Document field. The ping document is used only if the global Ping Type is set to Ping Document (see "Using other global settings"). Note that if you do not set a ping document here, and no global ping document is set (see "Using other global settings"), an error message might display to indicate that the server is registered but inactive.
- **8.** Enter the QuarkXPress Server instance user name and password in the **Admin** User and **Admin Password** fields.
- **9.** To specify that QuarkXPress Server Manager should begin sending rendering requests to this QuarkXPress Server instance, check **Enable**.
- **10.** To restrict this server to one or more particular types of rendering, check the appropriate boxes in the **Request Binding** area. To add additional render types (for example, render types provided by QuarkXPress Server XTensions software),

check Other and enter the appropriate namespaces in the corresponding field as a comma-separated list. For more information, see "Request handler binding."

11. Click OK.

Editing a QuarkXPress Server instance

To edit the description of a QuarkXPress Server instance, display the Manage Servers pane of the QuarkXPress Server Manager interface, select the server in the list, and then click Edit Server. You can also display the Edit QuarkXPress Server dialog box by hovering the mouse cursor over the server and then clicking the Edit **Server** button \mathscr{D} on the upper left.

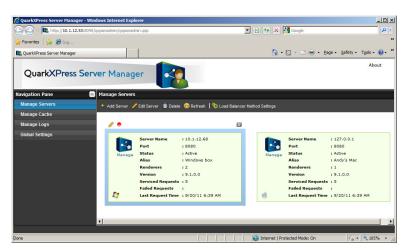
The options in the Edit QuarkXPress Server dialog box are the same as the options in the Add QuarkXPress Server dialog box (see "Adding and enabling a QuarkXPress Server instance").

Enabling and disabling routing to QuarkXPress Server instances

The Status field for each server in the Manage Servers pane of the QuarkXPress Server Manager interface shows the status of each QuarkXPress Server instance.

The status fields are not updated automatically. To update the **Status** field for all servers, click Refresh.

To enable or disable routing to a QuarkXPress Server instance, select the server, click Edit Server to display the Edit QuarkXPress Server dialog box, check or uncheck Enable, and then click OK. You can also enable or disable a QuarkXPress Server instance by hovering the mouse cursor over the server and then clicking the Enable the Server button or Disable the Server button on the upper left.

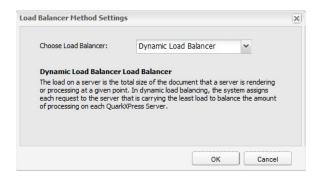


Manage Servers pane

Controlling load balancing

Load balancing ensures that each rendering request is sent to a QuarkXPress Server instance that is most likely to be able to handle it quickly. To define a loadbalancing setting for the QuarkXPress Server Manager server, display the Manage Servers pane of the QuarkXPress Server Manager interface and click Load

Balancer Method Settings. The Load Balancer Method Settings dialog box displays.



Load Balancer Method Settings dialog box

QuarkXPress Server Manager lets you use choose from three load-balancing settings:

- Dynamic Load Balancer: Sends requests to servers based on file size
- Random Load Balancer: Sends each rendering request to a random server
- Round-robin Load Balancer: Sends requests to servers in a set order

For more information about these load-balancing settings, see "Load balancing."

Deleting a QuarkXPress Server instance

To delete a QuarkXPress Server instance from the list of available servers in the QuarkXPress Server Manager interface, display the Manage Servers pane, select the server name or IP address, and then click Delete. You can also delete a server by hovering the mouse cursor over the server and then clicking the Delete the Server button
on the upper left.

→ Deleting a QuarkXPress Server instance from this dialog box does not shut down the QuarkXPress Server instance, but it does prevent the QuarkXPress Server Manager server from routing rendering requests to the QuarkXPress Server instance.

Managing the cache

Each QuarkXPress Server Manager server has an in-memory cache (in which it stores the keys to recently accessed items) and a disk-based cache (in which the items themselves are stored). If a request for a recently used item arrives, and a QuarkXPress Server Manager server has that request in its memory cache, the server can simply return the response from its disk cache instead of having to send the request to a QuarkXPress Server instance.

To manage the QuarkXPress Server Manager cache, display the Manage Cache pane of the QuarkXPress Server Manager interface.



Manage Cache pane

- Requests are stored in the cache only if the cache is turned on. For more information, see "Configuring cache options."
- The cache stores only the results of requests that do not deliberately bypass the cache.

Viewing a QuarkXPress Server Manager server cache

To view QuarkXPress Server Manager cache information, display the Manage Cache pane of the QuarkXPress Server Manager interface. For each file in the cache, this pane lists the command, URL, size, and time and date it was generated. To view a cache file, double-click the file name in the list.

Deleting files from the cache

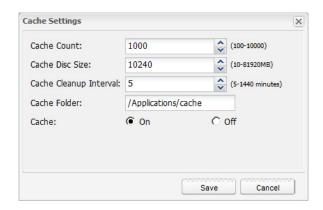
There is usually no need to manually delete files from a QuarkXPress Server Manager server's cache. When the cache reaches 95% of its capacity, QuarkXPress Server Manager automatically begins deleting the least recently used files in the cache to make room for new files. However, you can also manually clear files from the cache.

To manually delete cache files:

- 1. If you want to delete specific files, select those files in the list.
- Click Clear Selected Cache. The Clear Cache alert displays.
- 3. Click OK.

Configuring cache options

To configure cache options, display the Manage Cache pane in the QuarkXPress Server Manager interface, then click Cache Settings. The Cache Settings dialog box displays.



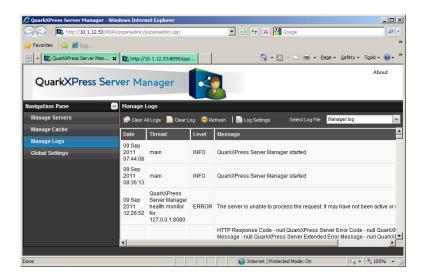
Manage Cache pane

- To set the maximum number of files allowed in the cache, enter a value in the Cache Count field. When the number of files in the cache reaches the number you set here, QuarkXPress Server Manager begins deleting the least recently used files to make room in the cache.
- To set the maximum disk cache size, enter a value in the Cache Disk Size field.
 When the disk cache reaches this size, QuarkXPress Server Manager begins deleting the least recently used files to make room in the cache.
- To specify an interval after which the cache should be periodically cleared, enter a value in the Cache Cleanup Interval field.
- To specify where cache files for the QuarkXPress Server Manager server should be stored, enter a path in the **Cache Folder** field.
- The Cache radio buttons let you control caching for the QuarkXPress Server Manager server. To turn caching on, click On. To turn caching off, click Off.

Managing logs

A QuarkXPress Server Manager server maintains logs of all of the requests it receives, the responses from the QuarkXPress Server instances, information about events (such as alerts) that occur during the render-request process, dates and times, and details about each request that was sent to a different QuarkXPress Server instance after its first assigned QuarkXPress Server instance was unable to process the request.

To control what information is stored in the logs, use the Manage Logs pane of the QuarkXPress Server Manager interface. For more information, see "Configuring logging options."



Manage Logs pane

Viewing log file details

To view information about a specific log file, display the Manage Logs pane of the QuarkXPress Server Manager interface, then choose the log file name from the Select Log File drop-down menu.

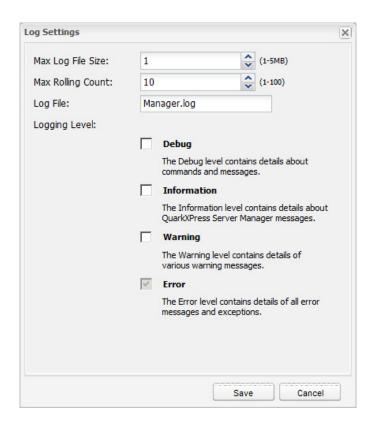
Deleting log files

To delete a log file:

- 1. Display the Manage Logs pane of the QuarkXPress Server Manager interface.
- Choose the target log file from the **Select Log File** drop-down menu.
- 3. Click Clear Log.
- → To clear all log files, click Clear All Logs.

Configuring logging options

To configure logging options, click Log Settings pane in the Manage Logs pane of the QuarkXPress Server Manager interface. The Log Settings dialog box displays.



Log Settings dialog box

To set the maximum log file size, enter a value in the Max Log FileSize field. When a log file reaches this size, the current log file is closed and a new log file is created.

To specify the maximum number of log files to keep, enter a value in the Max Rolling Count field. When the number of log files reaches this limit, QuarkXPress Server Manager deletes the oldest log file each time a new log file is created.

To specify the root name of the log file for the QuarkXPress Server Manager server, enter that name in the **Log File** field. To place the log file in a particular directory, precede the file name with an absolute path. QuarkXPress Server Manager appends numbers to this name to create consecutively named log files.

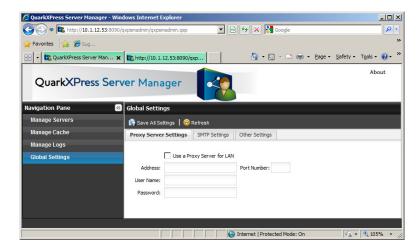
To control how much information is stored in the log files, check a box in the **Logging Level** area:

- **Debug**: Stores information such as the commands executed and the servers where those commands are executed. Also stores all of the information that is stored when **Information**, **Warning**, and **Error** are checked.
- Information: Stores informational messages such as startup messages and command-retry messages. Also stores all of the information that is stored when Warning and Error are checked.
- Warning: Stores warning messages. Also stores all of the information that is stored when Error is checked.
- Error: Stores error messages and stack traces for exceptions.
- The **Debug** and **Information** settings produce large logs that grow rapidly, so you might want to use these settings for troubleshooting only.

Using a proxy server

Some networks route network traffic through a proxy server for reasons of efficiency or security. To use a proxy server for all requests and responses between QuarkXPress Server Manager and QuarkXPress Server:

1. Display the Proxy Server Settings tab of the Global Settings pane of the QuarkXPress Server Manager interface.



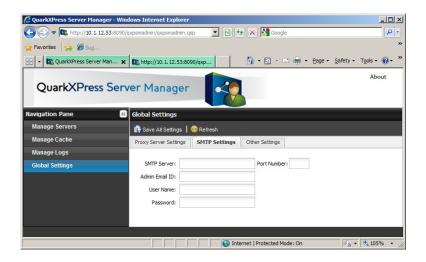
Proxy Server Settings tab

- 2. Check Use a Proxy Server for LAN.
- 3. Enter the proxy server's DNS name or IP address in the Address field.
- Enter the proxy server's port number in the **Port Number** field.
- Enter the proxy server's user name in the **User Name** field.
- Enter the proxy server's password in the **Password** field.

Generating automatic e-mail messages

You can configure a QuarkXPress Server Manager server to automatically generate and send e-mail messages if particular events occur. To configure the QuarkXPress Server Manager server to automatically send e-mail messages:

- 1. Display the SMTP Settings tab of the Global Settings pane of the QuarkXPress Server Manager interface.
- 2. Enter a valid SMTP server name or IP address in the SMTP Server field and then enter the corresponding port number in the Port Number field.
- 3. Enter the e-mail address to which messages should be sent in the Admin Email ID field.
- 4. If this SMTP server requires validation, enter a valid user name in the User Name field and a valid password in the Password field.



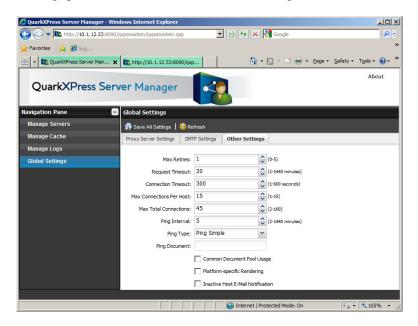
SMTP Settings pane

Two events can cause QuarkXPress Server Manager to generate an e-mail message:

- If Inactive Host E-mail Notification is checked (see "Using other global settings"), a message is sent when a QuarkXPress Server instance goes from the active state to the inactive state.
- If you have set up custom error messages (as described in "Using custom error messages"), certain QuarkXPress Server errors result in e-mail messages.

Using other global settings

To configure other global settings, display the **Other Settings** tab of the **Global Settings** pane of the **QuarkXPress Server Manager** user interface.



Other Settings tab of Global Settings page

Max Retries: To specify the maximum number of times the QuarkXPress Server
Manager server should submit a request to the QuarkXPress Server instances,
enter a value in this field. When QuarkXPress Manager has unsucessfully
submitted a request this many times, the application returns an error message.

- Request Timeout: To specify the maximum number of minutes the QuarkXPress Server Manager server should wait for a response from a QuarkXPress Server instance, enter a value in this field. When this time has elapsed, the QuarkXPress Server Manager server retries the request (unless the Max Retries value has been reached).
- Connection Timeout: To specify the maximum number of seconds the QuarkXPress Server Manager server should spend attempting to establish a connection with a particular QuarkXPress Server instance, enter a value in this field.
- Max Connections Per Host: To specify the maximum number of connections the QuarkXPress Server Manager server should open for a particular QuarkXPress Server instance before it begins queuing requests, enter a value in this field.
- Max Total Connections: To specify the maximum number of connections the QuarkXPress Server Manager server should open for all hosts before it begins queuing requests, enter a value in this field.
- **Ping Interval**: To set the amount of time the QuarkXPress Server Manager server should wait between ping attempts (see "*Determining QuarkXPress Server instance availability*"), enter a value in this field.
- **Ping Type**: To indicate whether QuarkXPress Server Manager should use a simple ping or a ping document to test a QuarkXPress Server instance, choose an option from this drop-down menu.
- Ping Document: To indicate which QuarkXPress project the QuarkXPress Server Manager server should use for ping document requests, enter the project file name in this field. Make sure a copy of the project file is in each QuarkXPress Server instance's document pool. Note that individual QuarkXPress Server instances can override this this value by providing another document name. Note also that a ping document is used only if Ping Type is set to Ping Document.
- Common Document Pool Usage: Check this box if all managed QuarkXPress Server instances are using the same document pool. If this box is checked, then upload, delete, and saveas requests are sent to one of the available servers. If this box is unchecked, then upload, delete, and saveas requests are sent to all managed servers. Note that you must manually set each server to point at the common document pool.
- Platform-specific Rendering: A QuarkXPress Server Manager server can send requests that involve Mac OS project files to a Mac OS-based QuarkXPress Server instance, and send requests that involve Windows project files to a Windows-based QuarkXPress Server instance. Setting up the server in this manner can be desirable if the project files involved use fonts that are available on only one platform or the other. To enable platform-specific rendering for the QuarkXPress Server Manager server, check this box.
- **Inactive Host E-mail Notification**: To automatically generate an e-mail message when a QuarkXPress Server instance becomes inactive, check this box. The e-mail message is sent to the address specified in the **SMTP Settings pane**.

Saving a server configuration

Changes that you make to a server configuration in the QuarkXPress Server Manager client are not made to the QuarkXPress Server Manager server until you click **Save All Settings** in the **Global Settings** pane of the QuarkXPress Server Manager interface.

To discard any changes you have made since logging on to the QuarkXPress Server Manager server, click **Refresh**. The configuration of the QuarkXPress Server Manager server remains as it was.

→ Disabling or enabling a QuarkXPress Server instance from the QuarkXPress Server Manager client is not considered a configuration change.

Using custom error messages

You can control which errors cause the QuarkXPress Server Manager server application to send e-mail messages to the address specified in the **SMTP Settings** pane (see "Generating automatic e-mail messages"). You can also define which messages are sent when such errors occur. The first step is to create a custom error code that corresponds to a QuarkXPress Server error code. After you set up this custom error code, you can specify whether that code generates an e-mail message and then create custom error messages.

Creating a custom error code

To create a custom error code:

1. On the computer where the QuarkXPress Server Manager server application is running, open the following file in a text-editing application:

```
[application folder]\server\conf\Manager Server ErrorCodeMapping.properties
```

- 2. Create a new line containing a QuarkXPress Server specific error code for which you want to generate automatic e-mail messages (with or without a custom text message). Follow the error code with an equals sign, a unique custom error code, and a return.
- **3.** Save and close the file.
- This change will not take effect until you quit and restart the QuarkXPress Server Manager server application.

Flagging an error code to generate an e-mail message

To specify that a custom error code should cause an e-mail message to be generated:

- **1.** Create a unique custom error code for the target QuarkXPress Server error. For more information, see "*Creating a custom error code*").
- **2.** On the computer where the QuarkXPress Server Manager server application is running, open the following file in a text-editing application:

```
[application folder]\server\conf\ManagerErrorCodeMailOption.properties
```

- **3.** Create a new line containing the unique custom error code you defined in step 2. Follow the custom error code with a tab, enter a 1 (to send the message) or a 0 (to suppress the message), and then press Return.
- 4. Save and close the file.
- This change will not take effect until you quit and restart the QuarkXPress Server Manager server application.

Creating custom error text

To define the text that should be sent in an e-mail message when an error occurs:

- **1.** Create a unique custom error code for the target QuarkXPress Server error (as described in "Creating a custom error code").
- **2.** On the computer where the QuarkXPress Server Manager server application is running, open the following file in a text-editing application:

```
[application folder]\server\conf\ManagerErrorCodeMessage.properties
```

- **3.** Create a new line containing the unique custom error code you defined in step 2. Follow the custom error code with a tab and then enter the custom text to be returned for that error.
- **4.** Save and close the file.
- This change will not take effect until you quit and restart the QuarkXPress Server Manager server application.

Sending requests from a browser

Like QuarkXPress Server, QuarkXPress Server Manager lets you send requests from a Web browser. This capability helps to ensure that you need to make only minimal changes when you update an application so that it sends requests to a QuarkXPress Server Manager server instead of a QuarkXPress Server instance.

Assume that a QuarkXPress Server instance expects requests in the following format:

```
http://[QXPServer]:[port]/[request]?[request parameters]
```

If this is the case, a QuarkXPress Server Manager server will expect requests in the following format:

```
http://[QXPSManagerServer]:[port]/qxpsm/request/[request]?[reques
t parameters]
```

In other words, a QuarkXPress Server Manager server accepts requests in a format that is similar to the request format used with a QuarkXPress Server instance. That means you can get the benefits of QuarkXPress Server Manager without having to completely rewrite your applications.

Additional parameters

In addition to request-specific parameters, QuarkXPress Server Manager accepts the following request parameters. These parameters can be submitted in the standard

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QuarkXPress Server GET format joined by an ampersand (&) with the other parameters in the body of the request.

- qxpsm_bypassfileinfo: When QuarkXPress Server Manager receives a request, it executes a fileinfo request on the document to get the document's size and last-modified date and time. These values are used for load balancing and for determining whether to serve the document from the cache. If the value of this parameter is set to true, the fileinfo request is not made, file size is considered to be zero for load-balancing purposes, and the document in the cache is considered to have changed.
- qxpsm context: Set this value if you need to use it in a custom load balancer.
- qxpsm_maxtries: This parameter lets you specify a maximum number of retries for a specific request. If this parameter is absent or set to 0, the global maximum retries value is used. To disable maximum retries for a request, use the value -1.
- qxpsm_password: The value of this parameter, if supplied, is used as the "Admin Password" value when the request is forwarded to a QuarkXPress Server instance.
- qxpsm_responseasurl: By default, QuarkXPress Server Manager writes
 responses as temporary files in the cache folder and returns a URL to the client.
 This approach prevents the performance degradation that can result from
 sending binary data using SOAP. However, you might want QuarkXPress Server
 Manager to return the response directly if you are creating an application that
 processes that response (simple or multipart) with its own logic. To make
 QuarkXPress Server Manager send a response to the browser rather than the URL
 of the temporary files in the cache, set this value to false. (Note that setting this
 value to false might result in decreased performance.)
- qxpsm_responseredirect: If you use servlet methodology to send a request to QuarkXPress Server Manager with qxpsm_responseasurl=true, QuarkXPress Server Manager returns a frameset page with one or more frames. If the response is not multipart, the frameset contains a single page with a URL pointing to a response file in the temporary cache. This can be problematic if, for example, you want to use the returned URL as an image link in an HTML page. In such situations, submit the request with both qxpsm_responseredirect=true and qxpsm_responseasurl=true. If you do this, QuarkXPress Server Manager returns the URL of the rendered file in the temporary cache instead of returning a frameset page. Note, however, that if the request results in a multipart response (such as the response returned by the boxes parameter), QuarkXPress Server Manager ignores the qxpsm_responseredirect=true parameter and returns the frameset page.
- qxpsm_servername: By default, the target QuarkXPress Server instance for each
 request is determined by the QuarkXPress Server Manager server's load-balancing
 system. To send a request to a specific QuarkXPress Server instance, set this
 parameter to the name or IP address of that QuarkXPress Server instance. Note
 that if you use this parameter with an IP address, you must also submit the port
 number using the qxpsm_serverport parameter.
- qxpsm_serverport: If you use the qxpsm_servername parameter with an IP address, supply the corresponding port number as this parameter's value.

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- qxpsm_timeout: This parameter lets you specify a timeout (in milliseconds) for a specific request. If this parameter is absent or set to 0, the global timeout value is used. To disable timeout for a request, use the value -1.
- qxpsm usecache: If you set this value to false, the request will be rendered regardless of whether it is cached and regardless of whether caching is enabled at the global level.
- qxpsm_username: The value of this parameter, if supplied, is used as the "Admin User" value when the request is forwarded to a QuarkXPress Server instance.
- qxpsm userpassword: The value of this parameter, if supplied, is used as the "Admin User" password when the request is forwarded to a QuarkXPress Server instance. Default value is null, which means no password information. If this is not null, you must also provide qxpsm username.

The XTensions Developer Kit (XDK)

The QuarkXPress Server XDK lets software developers implement features that are not available in QuarkXPress Server, such as server-side processing and application-specific services.

→ The QuarkXPress Server XDK requires knowledge of C or C++.

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 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.

Renderer: A renderer is a process launched by QuarkXPress Server to help process rendering requests. Renderers reside on the same server as QuarkXPress Server and share the same memory and preferences. When renderers are launched, QuarkXPress Server becomes a load-balancing "master server," passing incoming requests to renderers for faster response times.

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