

# What's New In Rumpus 6

**A summary of the changes in recent updates to Rumpus.**

## **Version 6**

Rumpus version 6 represents a dramatic update from previous releases, and includes too many additions and improvements to list fully. However, here are some highlights:

### *Rumpus FileWatch*

A new application, "Rumpus FileWatch" is now included with Rumpus. FileWatch can be run from your desktop Mac, and displays current user activity and recently transferred files in real time. Files can also be downloaded from the server to your own desktop simply by dragging the file from the list, eliminating the need to search for uploaded files on a remote server volume. Files can also be drop shipped to end users, complete with an automatic e-mail notifying the user of the file posting and providing a simple method to access it.

### *Multi-Domain Support*

The basic multi-domain support offered by previous versions of Rumpus has been dramatically expanded. Multiple domains can now be defined in Rumpus, and each domain can be customized with it's own appearance, including colors, fonts, icons and more. Alternate appearance templates can be thoroughly customized, as always, and can be displayed based on user selection or user account setting, as well as by domain name.

### *Web File Manager Updates*

The WFM can now easily be customized with page header and footer text, a "welcome" message and the ability to restrict upload types. Additional customization is also easier thanks to a revised and heavily CSS-oriented interface.

### *User Account Management*

Rumpus 6 makes user account management easier and more flexible through the tracking of notes associated with each account, user-specific welcome messages, automatic account setup notification via e-mail, and a completely revised Web user account management interface. System administrators can now easily customize what user account settings can be managed by sub-administrators, simplifying user management and improving security.

*Usability improvements*

Other improvements made in Rumpus 6 include:

- Mail and Web server preferences to simplify routine setup tasks
- New homogenous “files transferred” and “Failed Transfers” logs
- The ability to filter recent files lists by transfer type and user
- A “logout URL” allows exiting users to be redirected to a primary Web site
- Improved user feedback for long operations like entire folder downloads
- Drag & drop uploads can now be used with Upload Center forms
- User accounts can now be enabled or disabled for select protocols
- A template user account can now be chosen to set defaults for Web-created accounts
- The built in WFM color schemes have been revised
- A second Event Notice can now be triggered for file uploads
- The Rumpus control application has been reorganized for clarity
- Users can now choose the language or appearance of the Web interface, if needed
- An IP address “White List” is now available
- Help text has been improved, and is easier to access

**Version 6.0.1**

The WFM file listing now displays correctly when the "Show File/Folder Icons" option is disabled, and when a secondary download link is not used. Corrected a bug that could cause the server to crash on some systems during FTP login. Patched a slow memory leak. Fixed an error that could cause login problems for WFM users when the "Always Require Login" option was disabled. Added a work-around for a bug in MSIE that caused the WFM footer to be displayed incorrectly. Corrected an HTTP processing bug that could cause Rumpus servers to crash when certain malformed HTTP requests are received. Corrected an FTP buffer overrun bug that will result in a server crash when an FTP user sends certain maliciously formed FTP commands.

**Version 6.0.2**

The "Allowed IPs" list is now checked for changes by the Rumpus application, and if it changes (due to a remote administrator making a change, for example), it is reloaded. Corrected a bug that caused Rumpus to send an extra HTTP response when terminating persistent connections, which could confuse FireFox 3. To simplify local file monitoring on the server, enabling remote monitoring no longer requires that an allowed client address be supplied. Rewrote software update function to correct corruption problem downloading daemon updates on some OS X 10.5 systems. Added an Italian language translation for the WFM interface. During a daemon update, the Rumpus application now installs the previously set language templates. Added support for the FTP command "STOU" (STOre Unique). The "NoListing" WFM page in the default WFM template now includes a "Manage Users" button for user account management by administrator accounts that don't have "View Directory" privileges. The Drag & Drop Uploader now works correctly in the Boxes WFM appearance. Tightened error checking in Web Administration when defining new user accounts. Corrected a possible server crash when denying the upload of a duplicate file sent via the Drag & Drop upload applet. Corrected a problem moving uploaded files into sub-folders, when accepting small files via the Drag & Drop Uploader and when an Upload Center form is used. Session transcripts are now always saved to the logs folder when "Save Session Transcripts" is enabled.

**Version 6.0.3**

Corrected a rare bug that could result in a crash when serving very long directory listings with excessive amounts of extra dynamic content (Upload Center forms, headers, footers, welcome messages, etc.) via the WFM. Corrected a problem displaying the n-with-tilde character in the Spanish language interface. When an alternate appearance is assigned to a specific user account, the logout page is now displayed using the default appearance to avoid consistency issues. Increased buffer sizes in the Web user administration to allow for longer text messages and user account lists. Altered default WFM template set for improved MSIE 6 compatibility.

**Version 6.0.4**

Added boundary checking to avoid a rare crashing problem caused by certain malformed Web URLs. Corrected a bug that caused Open Directory user accounts with administrator privileges to fail to be able to access Web user administration pages. Corrected a problem defining user accounts for access to multi-domain servers via the Web administration. A problem accepting logins via FileWatch using a user account name that includes spaces has been corrected. The SSL "Network Address" field will now accept and correctly process a domain name, not only an IP address. Increased WFM processing buffer sizes to avoid a rare crashing problem.

**Version 6.0.5**

The default Web File Manager templates have been revised to improve the accuracy of the WFM display, browser compatibility, rendering speed, and handling of special cases (such as very long filenames with no spaces). The WFM "Can't overwrite file" error message is now correctly displayed from the messages file so that it is localized and customizable. Increased the SMTP username and password field lengths to a maximum of 63 characters. Corrected a bug that could cause the "failed login" counter to not be reset when users completed successful login. The "New Username" field is now automatically selected when the "New User" sheet on the Define Users window is opened. Mail sent by Rumpus with end user names specified in addresses (as in an address of the form "Bob Jones <bob@acme.com>") are now stripped to only the recipient address for SMTP transmission. The full address is included in mail message bodies for proper display in mail clients.

## **Version 5.3**

For Rumpus 5.3, two major new features are available, as well as a number of additional new options.

### *WebDAV Support*

Users can now connect via WebDAV, as well as FTP and Web. WebDAV represents a compelling alternative to FTP, and is supported by numerous file transfer clients. For most Mac server administrators, the most important client Rumpus can now support is Mac OS X. In the Finder's "Go" menu, choose "Connect To Server...", then specify the Web URL to your Rumpus server, as in "http://192.168.1.103". After being prompted for a Rumpus user account name and password, the user Home Folder will be mounted as a volume right on the desktop.

### *WFM Drag & Drop Uploads*

Web File Manager users now have the option of selecting files for upload by dragging them from their desktop into a box on the WFM file upload panel, rather than using a file chooser. The drag & drop uploader supports both files and folders, allowing users to upload entire folders quickly and easily.

### *Other New Features*

Additional security restrictions have been put in place to help stop attacks involving other services (such as SSH). The WFM HTTP response header can now include customized fields, allowing, for example, for an organization to implement a privacy policy that is reflected in the Rumpus Web service. An index page can now be specified, allowing Rumpus to act as a general purpose Web server for select folders.

## **Version 5.3.1**

The WebDAV server has been updated to support Windows clients and improve security. The WFM "Create Folder" dialog now automatically selects the folder name field. A bug that caused a conflict between new security restrictions and the "Allow User To Move Out Of Home Folder" option has been fixed. The WFM interface can now be installed in Danish. User Home Folders with paths that include extended characters can now be accessed via WebDAV.

**Version 5.3.2**

This release adds Mac OS X 10.5 (Leopard) compatibility.

**Version 5.3.3**

Installation and management of software components (the server daemon, SSL tunnel, and remote control daemon) has been revised for improved reliability under OS X 10.5 (Leopard). A bug in sending event notices which use the file name and path tokens in the message subject for multi-file uploads has been corrected. Made minor changes to WebDAV directory listing XML for improved Finder compatibility.

**Version 5.3.4**

This maintenance update improves compatibility with OS X 10.5, Safari 3 and the Finder's WebDAV client. Other changes include correcting a problem with "ROOT" home folder selection for user accounts managed by Web administration, the addition of an "<emailaddr>" token to insert a user's e-mail address in the "value" field of an Upload Center form, and the addition of a "WFMThruProxy" configuration option to allow the Rumpus WFM to be used behind an Apache Web server.

**Version 5.3.5**

Corrected a problem with filename parsing to allow files with names that include an ampersand ("&") to be received correctly via the WFM. When run under OS X 10.5, Rumpus no longer checks for firewall incompatibility, since 10.5 no longer runs a port-access based firewall. On OS X 10.5, the Rumpus application auto-update function is disabled and explains how to apply the update manually, avoiding a file download corruption problem introduced in OS X 10.5. Added character checking to simplify serial number entry and help avoid entry errors.

**Version 5.3.6**

Files and folders uploaded via WebDAV now have their ownership and permissions set correctly as specified for the user account in use. Added option to display download page when auto-login URLs lead directly to a specific file.

**Version 5.3.7**

A new token, "<homefoldername>" has been added to Event Notice processing, allowing the user's Home Folder folder name to be included in notices. FTP "site" commands can now be disabled, if required, by adding the directive "DisableFTPSiteCommands YES" to the Rumpus configuration file. Folders created when Drag & Drop upload is used to send entire folders now have ownership and permissions set correctly. Corrected potential crash bug in cases where very high peak loads are reached. The "<filesize>" Event Notice token now works when the referenced file is accessed through an alias. Added the "<filesize>" token to the Event Notice "Insert A Token" pop-up list. In Event Notice shell scripts, ampersand characters ("&") in filenames are now escaped so that scripts can process those files correctly.

**Version 5.3.8**

Introduced a fix for a file system issue in which files may not be immediately accessible after creation on slow volumes. Fixed a file path reporting problem in Event Notices when multiple files are listed that have been uploaded to different folders. Corrected token insertion pop-up for shell script and AppleScript notices. Added javascript test to alert users if no file is selected when trying to upload.

**Version 5.3.9**

Added Spanish language WFM interface. Added support for chunked HTTP uploads, allowing OS X 10.5.3 WebDAV clients to transfer files.

## **Version 5.2**

The single most significant change in Rumpus 5.2 is a reworking of the Web File Manager interface, offering an improved end user experience and modernized HTML. Various additional changes have also been made in support of the new interface and to extend other Rumpus features.

### *New WFM Interface*

The new WFM interface has been reworked to make better use of CSS, be XHTML compliant, and improve usability for end users. The revised look is cleaner, clearer, more consistent, and compatible with virtually all modern Web browsers.

### *Additional Enhancements And Corrections*

Built-in WFM templates can now each be localized into any of numerous Latin-1 character languages. Access to the user account information in the WFM is now a selectable option in the Rumpus control application. Several warning dialogs have been added and clarified to help avoid setup problems. Automatic deletion of expired files now works correctly for all files uploaded via the WFM. The passive mode connection address can now be specified for both standard FTP and FTPS sessions. A customizable error page has been incorporated into the WFM templates. File tracking, Event Notice, and Upload Center size limits have been increased to support more files, longer notice e-mail messages, and more complex upload forms.

## **Version 5.2.1**

Upload Center "Short Text" fields now correctly display a pre-assigned value. The "Disable Hack Attempts" function can now be disabled for Web, as well as FTP, requests. E-mail Event Notices sent when multiple files are uploaded now include a separate line for each file. A note explaining how changes are saved and loaded by the server engine is now displayed when the Define Users window is first opened. A "Save To Server" menu option has been added to force changes to be saved and loaded by the server engine. User accounts marked with "Administrator" access can now only manage user accounts within their own Home Folder group. Several minor problems in the WFM templates have been corrected to improve display and usability.

**Version 5.2.2**

Corrected a problem handling the Event Notice "FILESIZE" token in multi-file uploads. Various stats displays will now show data transfer sizes in GB after sizes get above several thousand MB. An option to allow WFM folder deletions to delete non-empty folders has been added. Open Directory authentication can now be set to only permit login by users with a pre-existing home folder. Added a new WFM Template Folder reset button, which resets the template folder path to the default and then opens the Appearance and Language sheet to update the templates. When the FTP Root folder is changed, an option is presented to automatically update all Rumpus users account home folders to be relative to the new root.

**Version 5.2.3**

Corrected a bug that could result in crashing when very large event notices were sent. Added an internal path check to restrict symbolic links to allow users to gain access to resources outside their Home Folder. The ability to delete folders that aren't empty now works correctly when the folder being deleted is being accessed through an alias. Rumpus now correctly reports the "REST" capability to "FEAT" requests.

**Version 5.2.4**

Increased Upload Center pop-up menu field length to 2000 characters. Files uploaded via the WFM now have leading spaces removed from the filename, if they are present. Removed the "Allow User To Move Out Of Home Folder" option from the Web user administration for sub-administrators. Added periodic garbage collection to reduce memory leakage. Added a new help article, "Drop Ship", to explain setting up a system to automatically e-mail "ready for download" notices to end users.

**Version 5.2.5**

Corrected a rare crashing bug that could occur on busy servers when sending event notices. On the WFM file upload form, the return key no longer can be used to submit the form, avoiding confusion over what action is performed when the user presses return. A bug that caused Web administration to incorrectly disable the ANONYMOUS user account has been corrected. Deprecated WFM tags (such as "WEBFILES\_STYLESHEET") are now automatically removed from older-style WFM templates. The WFM page generation engine has been made slightly more efficient. FTP clients are now disconnected only after several failed login attempts, allowing FTP clients to make several authentication tries.

**Version 5.2.6**

Corrected a bug that could cause files with very long names to fail to download via FTP.

## **Version 5.1**

Rumpus 5.1 adds several significant new features and addresses numerous minor problems and usability issues. The update is recommended for all Rumpus users running Mac OS X 10.3 and above.

### *“Upload Center” Form Creation*

The new “Upload Center” function allows the administrator to define user input forms that will be included on the Web File Manager file upload page. Prompting users to provide their name, e-mail address, or other information along with their file upload can now be done directly within the Rumpus application, without having to modify HTML or perform any other coding.

### *Forgotten Password Lookup*

Two new options are now available to find user passwords when they are forgotten. First, administrators can press Command-E on the “Define Users” window to expose the selected user account password. In addition, an optional “Forgot Your Password?” link can be included on the WFM login page, allowing users to have their account name and password e-mailed to them automatically.

### *Other Significant Features*

Rumpus will now automatically generate self-signed SSL certificates for use in HTTPS and FTPS encrypted sessions. Several common Event Notice templates are now provided, including dynamically generated notices that integrate with forms defined in the Upload Center. A new set of global options for defining uploaded file ownership and permissions is now available. New tokens have been added for Event Notice processing to allow automatic e-mails to include URLs to transferred files. Folder Set entries can now be made relative to user home folders so that a single Folder Set can be used across multiple user accounts.

### *More Fixes And Improvements*

Several enhancements have been made to the WFM interface: “logout” links have been added to confirmation pages, the Web user administration pages have been extended, and the file upload function is now the default task. A new option allows all WFM requests to be directed to HTTPS. When creating an Event Notice with "Start With A Copy ...", the custom message body is now inherited as well as the basic Event Notice fields. The Unix daemon can now gracefully be stopped from the command line. The Rumpus control interface has been improved with additional warning dialogs to avoid potential loss of data and other mistakes. The HTTPS port is now administrator selectable. Extended characters in file names are now represented correctly in e-mail Event Notices. Folders delivered via on-the-fly zip archive are now packaged for more reliable expansion on client computers. A problem that could cause corruption of the Event Notices database has been corrected.

**Version 5.1.1**

This maintenance release primarily addresses possible security vulnerabilities, and is a strongly recommended update for all Rumpus 4/5 installations on OS X. A situation in which local users (for example, a user with physical access to the machine, or someone logged in via secure shell) could potentially increase their level of access to super user has been eliminated. Also, a bug that could cause the server to crash when authenticated users send maliciously formed FTP commands has been fixed. A problem with sending large event notices has also been addressed. The Norwegian WFM interface has been completed, and the Rumpus control application now respects the “Restart Nightly” option.

**Version 5.1.2**

A variety of relatively minor bug fixes and feature improvements have been made. Failed WFM logins are now tracked when the “Disable Repeat Failures” option is enabled, and are logged accordingly. Upload Center pre-filled field values are now correctly disallowed for required fields. User account information is no longer logged for users authenticated via Open Directory sources. The WFM “Server Stats” page now works correctly for administrators connected via secure session. The “extra” WFM templates have been updated to include all appropriate version 5.1 features. Additional error checks and warnings have been added to help prevent improper server setup. The user account expiration date field is now correctly enabled and disabled. Various error conditions that arise in the “forgotten password” function have been cleaned up. A problem displaying the “Login Failed” message in the German language WFM templates has been corrected. The “Set Owner To Parent Folder Owner” option now works when no owner name has been supplied. The IP Address and other relevant tokens now work correctly in forgotten password event notices.

## **Version 5.0**

Rumpus 5.0 is a major update over previous releases, and includes significant new features, numerous useful extensions, and a variety of improvements and corrections. The update is recommended for all Rumpus users running Mac OS X 10.3 and above. Major new or updated features include:

### *Integrated Support For Secure Transfers Via SSL*

Rumpus now supports both HTTPS and FTPS for secure data transfers via SSL. Secure connections are handled by the popular Stunnel utility, which can be installed and automatically configured using the Rumpus control application.

### *Updated And Improved Web File Manager*

Rumpus' Web file transfer system, called the Web File Manager, has been heavily revised with a more dynamic interface that now offers improved navigation, file type icons, the ability to download entire folders as ".zip" archives, and integrated administrator-level functions for managing user accounts and reviewing server status.

### *Remote Server Monitoring Via Web Or Widget*

A widget is now provided which can be used on the Rumpus server or on a remote desktop Mac to monitor server status and recent activity. This information is also available to system administrators through an AJAX enabled Web page that has been incorporated into the Rumpus Web File Manager.

### *OpenDirectory User Authentication*

Users accessing the Rumpus server can now be authenticated via OpenDirectory. LDAP databases and local system user accounts, for example, can now be used to allow users to log in to both the Rumpus FTP and WFM services.

### *Intel Native Operation*

All aspects of the Rumpus server, including the server daemon and control application, are now distributed as Universal Binary files and run natively on both PPC and Intel based Macs.

### *Improved Efficiency, Reliability and Compatibility*

Rumpus now supports HTTP/1.1, including persistent connections, and HTTP headers have been revised for better browser compatibility and cache control. Extended passive data connections are now supported, as is the FEAT command for better compatibility with extended FTP clients and FTPS clients. Passive mode data connections are now recycled more efficiently and reliably. E-mail

messages have been extended with additional information and have also be revised for improved compatibility with some mail servers and spam filters. The Rumpus control application has been enhanced with additional trouble checks and warnings to help avoid potential problems.

**Version 5.0.1**

This release is a significant maintenance release that resolves numerous non-crucial problems and adds a variety of minor feature updates.

1. Rumpus application interface changes include better field entry checks, improved window resizing consistency and documentation and help text updates.
2. Added "File Upload" and "File Download" lines to the FTP Activity log, which include the full path and file size of each file transferred.
3. The "<filesize>" token now works correctly in Event Notices for files downloaded via FTP. The full path is also now included in place of the "<file>" token in this same case.
4. Added "Rotating Ports" option to work around a problem in specific router firmware that causes a failure when a passive mode port is used twice within a short period of time.
5. SSL Certificates pasted into the Rumpus SSL Setup window, which use CR/LF line endings, are now saved with the correct "LF" line ending. The certificate key file is also saved with "owner-only" privileges, avoiding the Stunnel "incorrect privileges" warning message. Also added "Load" buttons to the Certificate tab of the SSL Setup window to make loading certificate and certificate key files easier.
6. Enhanced error reporting, especially error information logged for WFM disconnected connections.
7. Added an "Open CrashReporter Log" button to the "Self-Diagnostics" window to simplify access to the Rumpus CrashReporter log file.
8. Added a "Restore WFM Templates" button to the Web Settings window, which resets the Templates Folder to the default folder and resets template files in that folder to their factory defaults.
9. Attempts to download an empty folder via the WFM now result in a meaningful error message.

10. Added the ability to specify a unique address for FTPS passive mode transfers. Add "FTPSConnectAddress XXX.XXX.XXX.XXX" to the "Rumpus.conf" file to specify the address Rumpus should provide when directing FTPS clients to make passive mode connections.
11. The RumpusStat widget has been updated with improved error checking and other corrections.

### **Version 5.0.2**

This maintenance release corrects a problem making PORT connections on Intel-based servers, improves tracking of WFM sessions when users access the server via HTTPS, and correctly displays Open Directory authenticated users in the Active Users list. A couple of minor edits were also made to the WFM templates to improve consistency between pages.

### **Version 5.0.3**

This maintenance release corrects a memory over-run bug in rare cases when serving WFM directory listings and makes locking/unlocking of the Rumpus configuration files more reliable.

### **Version 5.0.4/5.0.5**

In this update, a test dialog box was removed, and the backup function now backs up custom message body files, as well as other settings and text files. The backup function also performs a better check to confirm that the backup completed successfully. Also, thread registration and session tracking were simplified to be faster and more reliable. Version 5.0.5 corrects a problem introduced in the revised session tracking mechanism.

### **Version 5.0.6**

This maintenance release corrects three bugs in the Rumpus server daemon. A rare bug that could result in a server crash caused by exceptional WFM file uploads has been fixed. A problem sending event notices when users don't properly log out has also been resolved. Finally, the event notice "password" token now correctly inserts an anonymous user's e-mail address in download notices, as well as upload notices.

### **Version 5.0.7**

Added the ability to trigger a user database reload via HTTP request. Fixed a bug that could result in the server daemon hanging when expiring user accounts. Updated the "Welcome" help page. Rumpus now locks the user database file when reading, and thread access to the database is more robust. User database line endings can now be either CR or LF (but not both). Corrected type/creator code inversion problem on Intel Macs. Corrected MacBinary Finder information problem on Intel Macs.

## **Version 4.3**

Rumpus 4.3 is an incremental update designed to make Rumpus easier to use and manage.

### *Remote Administration*

The Rumpus control application can now be used to monitor access, define users, adjust settings and more from your desktop Mac. For details, see the “Remote Administration” article in the Helpful Info folder.

### *Settings Backup Assistant*

Rumpus settings, including configuration options, user accounts, upload notices, etc. can now be backed up easily using a simple assistant available from the “Management” tab.

### *Automatic Problem Detection*

When the Rumpus service is started, common problems such as an interfering firewall or server conflicts are checked for and reported, if found. To disable this feature, uncheck the “Check For Common Problems When Starting” option on the Admin tab of the FTP Settings window.

### *Extended Character Support*

Rumpus now offers much improved support for extended (European) character sets. All characters that can be represented in both Latin1 and MacRoman, are now correctly converted in file and folder names. Customization for other character sets is possible, as the conversion tables are stored as plain text files in the Rumpus configuration folder.

### *Other Bug Corrections And Updates*

Other updates include:

- Automatic user database backup when “Pro” versions of Rumpus are validated as “Standard”
- The nightly administration report no longer reverses upload/download bytes served
- Weekly log rolling now works correctly
- Users are now removed immediately from the “active users” list when they log out
- Log files displayed in Rumpus are now shown in black text with a white background
- Question marks in file/folder names are now encoded in WFM listings
- Additional error checking has been added to reduce setup errors

- Keyboard shortcuts have been added to more buttons and functions
- Logs can now be rolled to other file system volumes
- Spam filter compatibility has been improved and multiline shell scripts now execute correctly
- Minor tweaks have been made to the WFM templates
- A crash caused by a logging bug has been corrected
- Connections on which a login attempt is denied are now immediately terminated

**Version 4.3.1**

The following bug fixes and minor feature updates have been made: Improved compliance of administrator notices for better mail server compatibility. Corrected a bug which caused the control application to crash on some systems when checking for server conflicts. Added an option to disable the server start-up check on the “Firewall Conflict” warning dialog box. Folders created via Web user administration now get custom privileges assigned for accounts with custom permissions. Extended characters are now URL-encoded in WFM URLs. Character encoding/translation has been optimized for improved performance. Corrected two logging bugs that could cause crashes when rare file system problems are encountered. Added the selected filename to the WFM file download page. The filename shown on the WFM delete confirmation page is not correctly decoded for proper display of extended characters. Custom ownership is now correctly applied to uploaded files and user created folders when Mac OS aliases exist in the path.

**Version 4.3.2**

This version corrects the case of some internal paths, allowing Rumpus to be run on case-sensitive file systems. An option has been added to disable the reuse of FTP data threads. The firewall conflict test now correctly recognizes when the OS X Server firewall is disabled.

**Version 4.3.3**

An option has been added to have Rumpus log in to SMTP mail servers using the “EHLO” greeting, instead of “HELO”. To enable the option, add the line ‘SMTPHello “EHLO”’ to the “Rumpus.config” file. Remote administration now properly allows selection of folder sets for user accounts. The Upload Notice window now disables entry fields when no notice has been selected in the Notices list.

**Version 4.0**

Rumpus 4.0 represented an essentially ground-up rewrite for Mac OS X. This major update includes separation of the Rumpus server (now a Unix daemon process) and the control application, reorganization of the entire user interface, now presented in a full Aqua appearance, simplified installation and management, optimization for Unix networking and CPU usage, and much more. For users of Mac OS X, an update to Rumpus 4.0 is highly recommended.