

QuantaCade

QC Storage Bridge

User Walkthrough

A plain-language setup and daily-use guide for Joomla administrators and authorized frontend users

QC Storage Bridge gives Joomla administrators and authorized frontend users one controlled place to browse and manage files across Local/Joomla storage, FTP, SFTP, Google Drive, and OneDrive. Administrators create secured Storage Connections and publish them through Workspaces; users perform only the actions their Joomla group and Workspace role allow. Destructive actions are protected through the Recovery Vault before files are removed or replaced.

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www.quantacade.com

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1. What QC Storage Bridge does

QC Storage Bridge is a Joomla-centered multi-source file manager and transfer bridge. It lets administrators connect exact authorized storage roots and publish controlled file areas to frontend users without disclosing provider credentials or giving those users Joomla administrator access.

Core capabilities

- Connect Local/Joomla server storage, FTP, SFTP, Google Drive, and Microsoft OneDrive through one provider-neutral interface.
- Create reusable administrator-owned Storage Connections, each restricted to one exact root folder.
- Combine one or more Storage Connections into a Workspace and publish it through a Joomla menu item.
- Give Joomla user groups simple Workspace roles or, on Pro and higher, granular custom permissions and connection-specific overrides.
- Browse one, two, or several storage panels and use hidden destinations without permanently displaying every connection.
- Upload, download, create folders, rename, copy, move, and delete according to current permissions.
- Start ordinary copy, move, delete, and retry operations immediately while preserving unfinished work for safe background continuation when the plan allows it.
- Protect delete, replace, overwrite, and destructive move operations through verified Recovery Vault copies.
- Restore protected items to the original location or another authorized destination, download protected content, or permanently purge it with audit history retained.
- Give Max and All Access users a My Private Storage area for separately owned FTP, SFTP, Google Drive, and OneDrive connections.
- Control the entire frontend appearance through active Frontend Design settings and optional Frontend Text overrides.
- Use automatic license revalidation and package-shaped Joomla updates so the component and connector plugins advance together.

Current release boundary

QC Storage Bridge 1.01.04 is a controlled file manager and transfer product. It is not a complete Joomla backup replacement, public download library, formal document-management suite, collaboration platform, automatic synchronization engine, or malware scanner. QC Backup Manager remains the QuantaCade product for complete Joomla backup and recovery.

2. Before you begin

Item	Requirement
Joomla	A supported Joomla 5 or Joomla 6 site. Joomla 5 requires PHP 8.1 or later; Joomla 6 requires PHP 8.3 or later.
Administrator access	A Joomla administrator account that can install extensions, configure the component, create menu items, review Scheduled Tasks, and manage updates.
HTTPS	A valid HTTPS site is strongly recommended and should be treated as required for production Google or Microsoft OAuth use.
PHP extensions	cURL and OpenSSL are required for remote/OAuth providers. ZipArchive is optional but required to download protected folders from the Recovery Vault as ZIP files.
Storage credentials	Valid FTP/SFTP credentials or OAuth application credentials for the remote providers you plan to connect.
Protected private storage	A writable QCSB private-storage location outside the public web root. Leave the setting blank to use the safe site-parent default when appropriate.

Item	Requirement
QuantaCade license	A license key for activation, paid-tier recognition, support, protected downloads, updates, and automatic revalidation. Basic remains available without a paid plan.
Normal test user	At least one non-administrator Joomla account in the same group that will use the frontend Workspace.

Recommended preparation

- Begin with a small Local connection and one test Workspace before configuring remote providers.
- Create or identify a dedicated root folder for every connection. QCSB intentionally prevents access to parent folders above that root.
- Use test provider accounts and folders that you control for the first transfer and Recovery Vault cycle.
- For FTP, prefer FTP over TLS when supported. For confidential traffic, prefer SFTP over plain FTP.
- Create separate OAuth applications or credentials as required by your organization. Every QCSB connection stores its own credentials and tokens.
- Confirm that Joomla Scheduled Tasks run successfully on the hosting environment before relying on large background transfers or retention cleanup.
- Back up the Joomla site and database before the first production installation or major update.

3. Plans and feature tiers

Plan	What it includes
Basic - Free	Local storage, one Workspace, normal browsing, upload/download, basic file operations, Frontend Design, Frontend Text, and access to the three-day Max preview when available.
Pro - \$29.99/year	Everything in Basic, plus FTP, SFTP, multiple Workspaces, advanced permissions, and background continuation.
Max - \$59.99/year	Everything in Pro, plus Google Drive, OneDrive, My Private Storage / Private Connections, Recovery Vault management, and bulk operations.
All Access	QuantaCade platform entitlement that gives the installation the effective Max feature set for QC Storage Bridge.

NO PLAN-BASED FILE LIMITS: QC Storage Bridge does not impose commercial file-size, file-count, storage-space, or transfer-volume limits on Basic, Pro, Max, or All Access. PHP, web-server, hosting, provider, and account limits may still apply.

Plan restrictions and Joomla permissions are different. A plan restriction means the current license does not include the connector or feature. A permission restriction means the feature may be included in the plan, but the current Joomla group or Workspace role is not authorized to perform it. Existing settings, connections, and records are preserved after downgrade; unavailable features become locked rather than being deleted.

4. First setup checklist

1. Install the QC Storage Bridge package through Joomla System > Install > Extensions.
2. Open Components > QC Storage Bridge.
3. Open Settings, enter the QuantaCade License Key when one is available, and save.
4. Open Status and confirm the Effective tier, installed version, Joomla/PHP support, cURL, OpenSSL, connector readiness, update-site state, and license automation integrity.

5. Open System > Scheduled Tasks and confirm the QC Storage Bridge license, transfer-continuation, Recovery Vault cleanup, and notification routines are enabled and healthy.
6. Open Settings and confirm the private storage path, Recovery retention, Maximum upload, and default conflict behavior.
7. Create a Local/Joomla Storage Connection and test it.
8. Create a Workspace, select the Local connection, and assign an allowed Joomla user group a Viewer, Contributor, Editor, Manager, Upload Only, or Custom role as appropriate.
9. Create a Joomla menu item using the QC Storage Bridge File Workspace view and select the Workspace.
10. Log in as a normal user from the allowed group and test browsing, upload, download, new-folder, rename, copy/move, delete, and Recovery Vault behavior according to that role.
11. Add FTP, SFTP, Google Drive, and OneDrive connections only after the Local workflow is working.
12. Create the optional My Private Storage menu item when Max or All Access users will manage their own Private Connections.
13. Adjust Frontend Design and Frontend Text only after the functional workflow is confirmed.
14. Perform a complete transfer and Recovery Vault cycle before opening the Workspace to production users.

5. Administrator area overview

Tab	Purpose
About	Product summary, feature orientation, plan overview, and current QC Storage Bridge purpose.
Support	Support Center, QuantaCade profile, protected downloads, User Walkthrough, website, and copyable support information.
Status	License state, Effective tier, task integrity, runtime requirements, connector readiness, callback readiness, installed/available version, and Joomla update controls.
Settings	License key, private storage path, Recovery Vault retention, maximum upload, and default conflict behavior.
Storage Connections	Create, test, enable, disable, edit, reconnect, disconnect, and delete administrator-owned Local, FTP, SFTP, Google Drive, and OneDrive roots.
Workspaces	Choose Storage Connections, enable or disable the Workspace, assign Joomla user groups, select roles, and configure optional connection overrides.
Recovery Vault	Review protected copies, restore to the original or another destination, download protected items, purge, and monitor retention-cleanup health.
Frontend Design	Control the complete frontend design through seven independently saved sections.
Frontend Text	Set optional headings, descriptions, colors, and sizes for Shared Workspaces and My Private Storage.

The Transfers, Activity Log, and Email Templates administrator tabs are intentionally not part of the current interface. Transfer records, audit history, and internal notification infrastructure remain in the system even though those screens are not shown.

6. Activate your license and install updates

Activate or change the license

15. Open QC Storage Bridge > Settings.
16. Paste the QuantaCade License Key into the license field.

17. Click Save Settings. Saving a different key triggers validation and synchronizes the key with the protected Joomla update site.
18. Open Status and confirm License Status, Effective tier, Saved key, Last checked, and Next automatic check.
19. Use Activate / Validate License on Status when a manual validation is needed.

Automatic license checks

- The saved license is revalidated every 24 hours through the Scheduled Task.
- QCSB also checks when the next validation time is due during ordinary administrator use.
- Temporary transport failures may preserve the last valid entitlement until a later retry.
- Invalid, expired, revoked, disabled, wrong-product, wrong-domain, or ended access falls back to Basic behavior.
- Downgrade does not delete saved Storage Connections, Workspaces, Recovery records, or settings.

Check and install an update

20. Open the Status tab and click Check for Updates.
21. Review Installed version, Available version, and Update site.
22. When an update is available and the administrator has Joomla Extension Manager permission, click Upgrade QC Storage Bridge.
23. After the update, review Status and Scheduled Tasks, then clear Joomla and browser caches when a visible interface change does not appear immediately.

Do not include the complete license key, OAuth client secret, access token, refresh token, FTP/SFTP password, private key, or private storage path in screenshots, public tickets, forum posts, or documentation. The masked key, domain, version, Effective tier, and Installation UUID are normally sufficient for support.

7. Configure global Settings

Setting	Behavior
QuantaCade License Key	Controls activation, entitlement, support, protected package downloads, and Joomla update authorization.
Private storage path	Stores Recovery Vault and managed temporary content outside the public web root. Leave blank to use the safe site-parent default when supported by the hosting layout.
Recovery retention (days)	How long protected copies remain available unless an authorized user purges them sooner. The accepted default is 30 days.
Maximum upload (MB)	Administrator operational limit for uploads. Hosting, PHP, web-server, and provider limits may be lower. This is not a commercial-plan quota.
Default conflict behavior	Preserve both is the safest default. Replace is allowed only after QCSB creates and verifies Recovery Vault protection.

Use a private-storage location with enough capacity for the expected Recovery Vault retention period and temporary transfer staging. Do not place the directory inside a public download path. Changing the path after production use should be planned carefully so existing protected objects remain available.

8. Create a Local Storage Connection

Local/Joomla storage is available on Basic and higher. A Local connection exposes one exact filesystem root chosen by the administrator; it is not available as a user-created Private Connection.

24. Open QC Storage Bridge > Storage Connections and click New Connection.

25. Enter a clear Connection name, such as Company Documents or Customer Uploads.
26. Choose Local / Joomla Server as the Storage provider.
27. Enter the Exact root path. Use a directory that Joomla/PHP can read and write according to the operations you plan to allow.
28. Enable Allow access to subdirectories when users should be able to browse below the configured root. Leave it off to expose only files directly inside the root.
29. Leave Enabled selected when the connection should be available for Workspaces.
30. Click Test Connection.
31. When the test succeeds, click Create Connection or Save Connection.

One connection, one exact root: QCSB never allows a user to browse, infer, or address a parent path above the configured root. Create separate connections when different roots need different Workspaces, permissions, labels, or credentials.

9. Create an FTP or SFTP Storage Connection

FTP and SFTP are Pro features. Both may be administrator-owned shared connections or user-owned Private Connections on Max. SFTP is preferred for confidential traffic because plain FTP does not encrypt the session.

FTP connection

32. Open Storage Connections and create a new connection.
33. Choose FTP and enter the exact provider root path.
34. Enter the FTP host, port, username, and password.
35. Choose FTP over TLS when the server supports it. Use plain FTP only when the server requires it and the security tradeoff is understood.
36. Leave Use passive mode enabled for most cPanel and hosted FTP servers unless the provider instructs otherwise.
37. Choose whether subdirectories are allowed, click Test Connection, then save.

SFTP connection

38. Choose SFTP and enter the exact remote root path.
39. Enter the SFTP host, port, and username.
40. Choose Password or Private key authentication.
41. Enter the password, or paste the private key and optional passphrase.
42. Click Test Connection and review any host-key trust message.
43. Save the connection only after the host and root are verified.

SFTP host-key protection: QCSB records the server host key when a saved connection is first used. If the key later changes, QCSB blocks silent acceptance so the administrator can investigate the server change before trusting it.

10. Connect Google Drive

Google Drive is a Max feature. Each administrator-created Google connection uses the OAuth Client ID and Client Secret entered for that exact Storage Connection. QCSB does not provide one global administrator credential that is silently reused for other connections.

Prepare the Google OAuth application

44. Create or select a Google Cloud project controlled by the organization using the connection.
45. Enable the Google Drive API and configure the OAuth consent screen for the intended users.

46. Create an OAuth 2.0 Web application.
47. In QCSB, begin creating the Google Drive connection and copy the exact read-only Authorized redirect URI shown in the form.
48. Add that exact URI to the Google OAuth web application. The QCSB Google callback is a Joomla component URL and may contain its fixed query string.
49. Copy the Google OAuth Client ID and Client Secret into the QCSB connection form.

Create and authorize the connection

50. Enter a Connection name and the exact Google Drive root folder path.
51. Choose My Drive or Shared Drive. When Shared Drive is selected, enter the Shared Drive ID.
52. Choose whether subdirectories are available and save the connection first.
53. Edit the saved connection and click Connect Google Account.
54. Sign in to the intended Google account and approve the requested Drive access.
55. Confirm that QCSB reports that Google Drive is connected and that the configured root was verified while parent folders remain outside the connection.
56. Click Test Connection, then include the connection in a test Workspace.

Use Reconnect Google Account when authorization changes, the refresh token is no longer usable, or the provider account needs to be replaced. Disconnect removes the active authorization from QCSB without deleting files from Google Drive.

11. Connect Microsoft OneDrive

OneDrive is a Max feature. The accepted 1.01.04 callback enters through Joomla routing and contains no registered query string. Microsoft may append its authorization code and state when it returns.

Prepare the Microsoft application

57. Open Microsoft Entra and create or select an App registration.
58. Choose the account audience that matches the intended users: work/school and personal, personal only, or work/school only.
59. Create a Client Secret and copy the secret Value. Do not paste the Secret ID into QCSB.
60. In the QCSB OneDrive connection form, copy the exact read-only Authorized redirect URI displayed for the site.
61. In Microsoft Entra, open App registrations > your app > Authentication > Add a platform > Web.
62. Paste the exact QCSB URI under Redirect URIs and save. The current route ends with `/index.php/component/qcstoragebridge/onedrive-callback` on a standard non-SEF configuration.

Create and authorize the connection

63. Enter the Connection name, exact OneDrive root path, Application (client) ID, Client Secret Value, and Microsoft account type.
64. Choose whether subdirectories are available and save the connection first.
65. Edit the saved connection and click Connect Microsoft Account.
66. Sign in with the intended Microsoft account and approve access.
67. Confirm that QCSB returns successfully and reports the Microsoft account connected.
68. Click Test Connection and include it in a test Workspace.

Do not register the old physical administrator callback used by earlier development builds. QC Storage Bridge 1.01.04 uses the Joomla-routed callback shown in the current connection editor. Always copy the URI displayed by the installed version.

12. Create and manage Workspaces

A Workspace is the frontend publication boundary. It combines one or more administrator-owned Storage Connections and one or more allowed Joomla user groups into a controlled file area.

69. Open QC Storage Bridge > Workspaces.
 70. Click New Workspace.
 71. Enter a clear Name, such as Company Files, Customer Uploads, or Archive Manager.
 72. Leave Enabled selected when the Workspace should be available on the frontend.
 73. Select every Storage Connection that should be available in this Workspace.
 74. Under Allowed user groups, click Add Group and choose the Joomla group that should enter the Workspace.
 75. Choose the Workspace role for that group.
 76. Add other groups when they need different roles.
 77. Use Connection overrides only when a group needs a different role or No Access for one specific connection.
 78. Click Create Workspace or Save Workspace.
- Basic permits one active Workspace. Pro, Max, and All Access permit multiple Workspaces.
 - The same Storage Connection may appear in multiple Workspaces with different group roles.
 - A disabled Workspace remains saved but cannot be opened from the frontend.
 - Deleting a Workspace does not delete its Storage Connections or provider files.
 - A connection must be removed from every Workspace before the administrator can delete that connection record.

13. Assign Workspace roles and permissions

Role	What the group can do
Upload Only	Upload files, create folders, and copy or move files into storage. Cannot browse, download, edit, or delete existing files.
Viewer	Browse folders, preview/search where available, and download files. Cannot upload or change files.
Contributor	Browse, upload, download, create folders, and copy files in or out. Cannot move, rename, replace, or delete files.
Editor	Contributor access plus move, rename, replace, and delete. Does not include Recovery Vault management, activity, bulk export, or transfer-package permissions.
Manager	Full role, including editing, deletion, Recovery Vault restore and purge, activity, bulk export, and transfer-package permissions.
Custom Permissions	Pro or higher. Select only the individual operations the Joomla group should have.

Permission rules

- Groups not listed in the Workspace have no access.
- Joomla menu access and component access still apply in addition to the Workspace role.
- An explicit deny wins over an allow.
- Copy and Move check the source and destination independently.
- A destination the user cannot use is omitted from the chooser and rejected if a request is altered manually.
- Background continuation rechecks the original user's current permissions before contacting the provider.
- Private Connections are visible only to their owner and cannot be inserted into a shared Workspace through URL or database manipulation.
- Buttons and disabled controls are guidance only; the server rechecks every operation.

Connection overrides

Open Connection overrides inside a group row only when that group needs a different role on one selected Storage Connection. Use Use Workspace Role for ordinary cases. No Access blocks that group from the connection even though the connection remains available to other groups in the same Workspace.

14. Publish frontend menu items

File Workspace menu item

79. Open Joomla Menus and choose the menu that should contain the file area.
80. Create a new menu item.
81. Choose QC Storage Bridge > File Workspace as the Menu Item Type.
82. Select the Workspace in the menu-item parameters.
83. Enter a clear menu title.
84. Set Joomla Access to match the intended audience. The Workspace group rules still apply after the menu item is visible.
85. Publish the menu item and test it with a normal allowed user.

My Private Storage menu item

86. Create another menu item and choose QC Storage Bridge > My Private Storage.
87. Set Access to Registered or another appropriate logged-in access level.
88. Publish it only when the site has Max or All Access and users should create their own Private Connections.

A visible menu item does not grant file permission. The user must also be logged in, pass the Joomla access level, belong to an allowed Workspace group when opening a shared Workspace, and have the required operation permission.

15. Use the frontend File Workspace

The File Workspace is a compact frontend application. It may show one connection, two equal-height side-by-side views, or several storage panels. Every panel remains confined to the connection root selected by the administrator.

Area	What it does
Workspace heading	Shows the Workspace title and optional description. Frontend Text may override the heading and description.
Stack	Places every open storage view at full width.
Pair	Arranges open storage views in 50/50 rows. Paired views are kept the same height.
Help	Shows explanations for visible controls.
Add storage view	Opens another available connection as a panel.
Reset layout	Returns the current user's panels to the Workspace default layout.
Panel header and path	Identifies the storage location and current folder.
Parent arrow	Returns to the parent folder without allowing navigation above the configured root.
Select all	Selects every item currently displayed on the current page/filter.
Upload / New folder	Opens compact quick forms when the current role permits the action.

Area	What it does
Recovery Vault	Shows protected items the current user is authorized to manage.
Transfers	Shows recent immediate/background work, progress, failures, cancel, and retry controls.

Controls that are not permitted may be disabled or omitted. Hover, keyboard focus, and Help explanations describe the reason when available.

16. Browse folders, panels, layouts, filtering, and paging

Folder navigation

- Click a folder name to open it. QCSB refreshes only that storage panel rather than reloading the entire Joomla page.
- Use the parent arrow to move up one level. The connection root remains the highest reachable folder.
- Browser Back and Forward work with folder navigation, and readable URLs remain reloadable/bookmarkable.
- Google Drive and OneDrive may use signed provider folder IDs internally so deep navigation does not repeatedly resolve every path segment.
- Recently visited listings may use a short private cache. Upload, create, rename, copy, move, delete, and restore invalidate affected folders.

Panels and layout

- Use Add storage view to open another available connection.
- Use Stack for full-width views and Pair for 50/50 rows.
- Destination-only connections may appear in Copy To or Move To without being kept open as a visible panel.
- Reset layout restores the configured default without changing the administrator's Workspace definition.

Filter, sort, and page

- Filter narrows the current loaded listing without contacting the provider again while the listing remains cached.
- Sort by name, size, date, or type. Folders remain grouped ahead of files.
- Choose 50, 100, or 200 items per page independently for each panel.
- Select all applies to the items currently shown, so review the filter and page before a bulk action.

17. Upload files and create folders

Upload a file

89. Open the destination folder.
90. Open Upload in the panel toolbar.
91. Choose the local file.
92. Select Preserve both or Replace safely for a name conflict.
93. Click Upload.
94. Wait for the result message and confirm the file appears. The affected folder listing is refreshed or invalidated automatically.

Create a folder

95. Open the parent folder where the new folder should be created.
96. Open New folder.
97. Enter the folder name and click Create.

Preserve both creates a unique destination name instead of overwriting an existing item. Replace safely is permitted only when QCSB can create and verify the required Recovery Vault protection for the existing destination.

Upload availability depends on the current plan, Workspace role, connection override, provider state, configured root, file size, administrator Maximum upload setting, and hosting/provider limits.

18. Select, download, rename, and delete

Click the custom checkbox beside an item to select it. The selection bar appears with the actions the current role may perform. File-list and Recovery Vault checkboxes use the same visible checkmark style.

Download

98. Select one file.
99. Click Download.
100. Save the streamed file through the browser. Direct provider credentials and private paths are never exposed to the user.

Rename

101. Select one file or folder.
102. Click Rename.
103. Enter the new name and confirm.

Delete

104. Select one or more permitted files or folders.
105. Click Delete and review the confirmation.
106. QCSB creates and verifies a protected Recovery Vault copy before removing each item.
107. If protection cannot be created, the destructive action is blocked for that item.
108. Review the result and the Recovery Vault entry.

Deleting through QC Storage Bridge is not the same as deleting the Storage Connection or Workspace record. A file/folder Delete operation affects provider content after protection. Deleting a connection or Workspace configuration never deletes provider files.

19. Copy or move files between storage locations

Copy To

109. Select one or more items in the source panel.
110. Click Copy to...
111. Choose an authorized destination connection and folder. The destination does not need to be open as a panel.
112. Choose Preserve both or Replace safely when a conflict option is offered.
113. Confirm the copy and review the immediate result or Transfers progress.

Move To

114. Select one or more source items and click Move to...
115. Choose an authorized destination and confirm.
116. QCSB protects the source before a destructive move, writes the destination, and verifies completion.
117. The source is removed only after the destination is verified.

Conflict behavior

- Preserve both is the accepted safe default and creates a unique destination name.
- Replace safely creates Recovery Vault protection for the existing destination before overwrite.
- Restore operations also preserve both when the requested destination already contains an item with the same name.
- Copy and Move verify source and destination permissions separately; an available source does not imply access to every destination.

20. Understand Transfers and background continuation

QC Storage Bridge records copy, move, delete, and related work as durable transfer jobs, but it does not make ordinary users wait for a scheduled queue. The request attempts normal work immediately. Only unfinished work remains for safe continuation.

State	Meaning
Running immediately	The current browser request is actively processing the operation.
Continuing in background	The operation exceeded the immediate item/time budget or needs later continuation. Pro, Max, or All Access is required for background continuation.
Completed	Every planned item completed successfully.
Completed with warnings	Useful work completed, but one or more items need attention.
Failed	The operation or remaining items could not complete after the available attempts.
Cancelled	The user cancelled remaining work. Completed items are not falsely reversed or reported as unprocessed.

- Open Transfers at the bottom of the frontend Workspace to review recent jobs and progress.
- Progress shows completed items and bytes where available.
- Open Details to see sanitized per-item failure messages.
- Click Cancel while a job is queued, running, retrying, or cancelling.
- Click Retry failed items after a failed, warning, or cancelled result. Retry targets failed items rather than repeating successful items.
- The Scheduled Task rechecks the original user's current authority before continuing a job.

21. Use the Recovery Vault

The Recovery Vault is the verified safety layer for destructive operations performed through QC Storage Bridge. It works across Local, FTP, SFTP, Google Drive, and OneDrive through the same provider-neutral framework.

What enters the Recovery Vault

- Items deleted through QCSB.
- Existing destination items replaced or overwritten through QCSB.
- Source items before a destructive Move operation.

Restore to the original location

118. Open the Recovery Vault in the frontend Workspace or administrator area.
119. Select the protected item and click Restore.
120. QCSB rechecks current permission and restores the item to its original authorized location.
121. If the original name already exists, QCSB preserves both rather than silently overwriting it.
122. The protected copy remains in the Vault until retention expires or an authorized user purges it.

Restore to another location

123. Click Restore to... beside the protected item.
124. Use the screen-level destination dialog to choose another authorized connection and folder.
125. Confirm the restore and review the verification result.

Other Recovery Vault actions

- Download streams a protected file. A protected folder is packaged as ZIP when PHP ZipArchive is installed.
- Purge permanently removes the protected copy but keeps the restore/purge and audit history.
- Select multiple entries and use Restore selected or Purge selected when bulk operations are included and permitted.
- Protected copies expire according to the administrator's Recovery retention setting. Scheduled cleanup purges expired verified objects and records missing objects or failures.

Safety rule: when required Recovery Vault protection cannot be created and verified, QCSB blocks the delete, replace, overwrite, or destructive move instead of proceeding without protection.

22. Use My Private Storage

My Private Storage is a Max and All Access feature for authenticated users. It lets a user create isolated FTP, SFTP, Google Drive, and OneDrive connections without receiving Joomla administrator access. Local storage remains administrator-owned only.

Private credential model

Every Private Connection is separate. The user must enter that connection's own credentials. Administrator OAuth credentials are not reused for private users, and one Private Connection's credentials or tokens are not reused for another connection—even for the same provider account.

Create a Private Connection

126. Open the My Private Storage menu item while logged in.
 127. Open the Private Connection manager and choose Add / New Private Connection.
 128. Choose FTP, SFTP, Google Drive, or OneDrive.
 129. Enter a clear name, exact root, provider credentials, and subdirectory setting.
 130. For Google Drive or OneDrive, save first, then edit and use Connect Google Account or Connect Microsoft Account.
 131. For OAuth providers, copy the exact callback URI shown in the private connection form into the user's own OAuth application before connecting.
 132. Test the connection and enable it.
 133. Return to the Private Storage workspace and browse or manage it according to the private-user permissions provided by QCSB.
- Each user sees only their own Private Connections and preferences.
 - OAuth callbacks do not depend on the current Joomla login session, but the one-time encrypted state remains bound to the initiating owner and exact connection.
 - Deleting a Private Connection removes the QCSB connection/secret relationship but does not delete provider files.
 - Private Connections cannot be inserted into administrator-shared Workspaces.

23. Configure Frontend Design

Frontend Design controls the actual QC Storage Bridge frontend, not a sample preview. The accepted current colors and styles are the defaults, and every retained setting maps to a runtime frontend value.

Section	What it controls
Layout and typography	Fonts, sizes, spacing, widths, radiuses, shadows, panel dimensions, and the Restore Original Defaults action.
Main colors	Page, surface, toolbar, file-list, input, border, popup, and general text colors.
Buttons and selection	Primary/secondary buttons, hover states, selected rows, checkboxes, and folder color.
Messages and overlays	Destructive buttons, success/warning/error/info notices, tooltips, and the modal backdrop.
File type icons	PDF, image, document/spreadsheet, archive, and code icon colors.
Private Storage	Private-area text and button colors independently from shared Workspaces.
Recovery and Transfers	Recovery Vault controls/text and transfer status text.

Save design changes

134. Open QC Storage Bridge > Frontend Design.
135. Change only one section at a time during the first setup so the result is easy to identify.
136. Click the Save button inside that section. Saving one section preserves all other sections.
137. Open the frontend Workspace in another browser tab and refresh it.
138. Repeat for the next section.

Restore Original Defaults is located in Layout and typography and restores the complete design set to the accepted QC Storage Bridge defaults. Record intentional production colors before restoring all defaults.

24. Configure Frontend Text

Frontend Text contains only the two current frontend scopes: Shared Workspaces and My Private Storage. Unused scopes were removed.

Scope	Available controls
Shared Workspaces	Optional heading override, optional description override, heading color/size, and description color/size. Blank text preserves the normal Workspace title and description.
My Private Storage	Separate optional heading and description plus their colors and sizes. Blank text preserves the normal Private Storage wording.

139. Open QC Storage Bridge > Frontend Text.
140. Enter an optional Shared Workspaces heading or description only when the site needs installation-wide replacement text.
141. Choose heading and description colors and sizes.
142. Scroll to the separately spaced My Private Storage container and set its independent values when that menu item is used.
143. Save and verify a normal Workspace, destination-only Workspace rendering, the Private Storage dashboard, and the Private Connection manager.

Leave heading or description overrides blank when each Workspace should use its own configured name and description. Text styling still applies to the frontend header.

25. Scheduled Tasks, Status, and diagnostics

Task / diagnostic	Purpose
License Revalidation	Revalidates the saved license every 24 hours and maintains the Effective tier.
Transfer Continuation	Claims unfinished Pro/Max/All Access jobs, rechecks authority, processes remaining items, verifies results, and updates progress.
Recovery Vault Cleanup	Processes expired protected copies, records missing objects and failures, and reports health.
Notification routine	Processes retained internal notification-delivery infrastructure when applicable.
License Automation Integrity	Detects disabled plugins/tasks, duplicates, incorrect execution rules, and related scheduler problems; repair controls restore the expected task state.

Review Status

- License Status, Effective tier, masked key, Last checked, and Next automatic check.
- Installed Joomla/PHP support: Joomla 5 with PHP 8.1+, or Joomla 6 with PHP 8.3+.
- cURL and OpenSSL readiness for remote/OAuth providers.
- ZipArchive readiness for protected-folder ZIP downloads.
- OneDrive callback readiness: Joomla router present and obsolete administrator callback absent.
- Connector readiness for Local, FTP, SFTP, Google Drive, and OneDrive.
- Installed version, Available version, update-site state, Check for Updates, and Upgrade QC Storage Bridge when authorized.

A task run with no work due should still complete successfully. Repeated exit-code errors, disabled tasks, duplicates, or a missing task plugin should be corrected before production use.

26. Support tab and downloadable resources

Button or resource	Destination or purpose
Open Support Center	Opens the QuantaCade support area for installation, licensing, protected updates, provider setup, transfer, Recovery Vault, and troubleshooting help.
Open My Profile	Manage the QuantaCade profile, test licenses, allowed domains, downloads, and support conversations.
Open Downloads	Access the protected QC Storage Bridge package, complete source, manual, walkthrough, validation reports, and release files when available.
QC Storage Bridge User Walkthrough	Plain-language administrator setup, provider connection, Workspace, frontend operation, Recovery Vault, and troubleshooting guide.
QuantaCade Website	Products, account tools, downloads, documentation, and support resources.

Support Information

The Support Information card shows the product, version, product code, domain, masked saved key, license status, Effective tier, and Installation UUID. Include these values in a support request when possible. Never send the full license key, OAuth secrets/tokens, FTP/SFTP passwords, private keys, database credentials, or unrestricted private paths.

27. Going live checklist

- QC Storage Bridge 1.01.04 is installed and the outer package, component, Task plugin, and Local/FTP/SFTP/Google Drive/OneDrive connector plugins are enabled.
- The site is Joomla 5 or Joomla 6 on the required PHP version.
- The license validates and Status shows the intended Effective tier and next automatic check.
- License Revalidation, Transfer Continuation, Recovery Vault Cleanup, and related tasks run without exit-code errors.
- The private storage path is outside the public web root, writable, and has enough available capacity.
- The Recovery retention, Maximum upload, and conflict default are intentional.
- Every Storage Connection passes Test Connection and remains confined to the intended root.
- Google and OneDrive reconnect successfully using the exact callback URI shown by 1.01.04.
- A normal allowed user can open the File Workspace and cannot access any parent folder above a configured root.
- Every important Joomla group has the correct Workspace role and connection overrides.
- A user outside the allowed groups cannot enter the Workspace.
- Upload, New folder, Download, Rename, Copy To, Move To, and Delete match the intended permissions.
- A deliberate same-name conflict confirms Preserve both and Replace safely behavior.
- A Local-to-remote and remote-to-Local transfer completes and reports progress correctly.
- A deliberately interrupted or slow transfer continues through the Scheduled Task on Pro or higher.
- Delete, Replace, and destructive Move create Recovery Vault protection before provider content is removed.
- Restore original, Restore to another destination, Download, Purge, bulk restore, and bulk purge are tested where licensed and permitted.
- A protected folder downloads as ZIP when ZipArchive is installed, or shows a clear requirement message when it is unavailable.
- My Private Storage users can see only their own connections and use their own credentials.
- Frontend Design and Frontend Text appear correctly on desktop and mobile without changing the accepted layout.
- Check for Updates and one controlled protected package update work through Joomla Extension Update.
- Support links and protected downloads open correctly.

28. Troubleshooting

Issue	What to check
License tier is wrong or pending	Save and validate the key again, confirm the product/domain entitlement, review Last checked and Next automatic check, then inspect License Automation Integrity and the License Revalidation task.
Update is not detected	Confirm the saved key, QCSB package update site, enabled state, QuantaCade release metadata, protected-download entitlement, and Joomla update cache.
User cannot open a Workspace	Confirm login, menu publication/access, Workspace enabled state, Joomla access level, allowed user group, plan availability, and connection enabled state.
Connection does not appear in a Workspace	Confirm it is enabled, included in the Workspace, permitted by the plan, and not blocked by the group's connection override.
Local connection test fails	Confirm the exact root exists, PHP can access it, the path is not empty/unsafe, and filesystem permissions match the intended operations.
FTP connection fails	Check host, port, username, password, TLS/plain mode, passive mode, firewall, server certificate, exact root, and provider access rules.
SFTP connection fails or host key changed	Check host, port, authentication type, password/private key/passphrase, exact root, and investigate the host-key change before trusting it.

Issue	What to check
Google reports redirect mismatch	Copy the exact Authorized redirect URI from the installed connection form into the Google OAuth web application. Preserve its complete query string and site scheme/domain/path.
Google connects but folders fail	Confirm Drive API access, intended account/root, Shared Drive ID/mode when used, connection health, and reconnect the account if the token is no longer valid.
OneDrive returns a 404 or redirect mismatch	Use the exact clean Joomla-routed URI displayed by 1.01.04. Remove older physical administrator callback URIs from the Microsoft application and reconnect.
OneDrive secret is rejected	Enter the Microsoft Client Secret Value, not the Secret ID, and confirm the secret has not expired.
Folder browsing is slow	Remote providers require API calls. Confirm only one panel is loading, return to a recently visited folder to test cache behavior, reduce items per page, and check provider/network latency.
Upload is unavailable	Check the Workspace role, connection override, provider state, current folder, Maximum upload, PHP/web-server limits, provider limits, and free storage.
Copy To or Move To is disabled	Confirm source permission, at least one authorized destination, destination copy_in/move_in permission, provider health, and plan entitlement.
Delete or Replace is blocked	Recovery Vault protection could not be created or verified, or the user lacks Delete/Replace permission. Check private storage capacity, provider access, and the displayed error.
Transfer remains in background	Open Transfers, review progress/details, confirm Pro or higher, and verify the Transfer Continuation task is enabled and running.
Retry failed items does not finish	Open failure Details, correct provider credentials/availability/permissions or destination conflicts, then retry. Successful items are not repeated.
Recovery item cannot be restored	Confirm the item has not expired/purged, the protected object exists, the current user has Restore permission, the destination remains authorized, and the provider is healthy.
Protected folder will not download	Confirm PHP ZipArchive is installed. Files can download directly; protected folders require ZIP packaging.
My Private Storage user sees no provider option	Confirm Max or All Access, the user is logged in, the menu item is published, and the selected provider is allowed for Private Connections.
Frontend colors do not change	Save the specific Frontend Design section, refresh/clear browser and Joomla caches, and confirm the changed control belongs to the visible frontend element.
Frontend text does not change	Confirm the correct Shared Workspace or My Private Storage scope was saved. Blank overrides intentionally fall back to the normal title/description.

29. Glossary

Term	Meaning
Storage Connection	One secured administrator-owned or user-owned connection to an exact Local, FTP, SFTP, Google Drive, or OneDrive root.
Connection root	The highest folder QCSB permits for that connection. Parent folders remain outside the connection.
Workspace	An administrator-published frontend file area containing selected shared Storage Connections and allowed Joomla user-group roles.

Term	Meaning
Shared connection	An administrator-created Storage Connection that may be included in one or more Workspaces.
Private Connection	A Max user-owned FTP, SFTP, Google Drive, or OneDrive connection visible only to its owner.
My Private Storage	The frontend area where an authenticated Max/All Access user manages and browses their own Private Connections.
Workspace role	A preset such as Upload Only, Viewer, Contributor, Editor, Manager, or Custom Permissions assigned to a Joomla group.
Connection override	An optional role or No Access rule for one group on one connection inside a Workspace.
Provider root verification	The check that confirms the configured provider folder exists and that QCSB remains confined to it.
Preserve both	Conflict behavior that creates a unique destination name instead of overwriting the existing item.
Replace safely	Conflict behavior that protects the existing destination in the Recovery Vault before replacement.
Transfer job	The durable record for copy, move, delete, retry, progress, cancellation, and background continuation.
Background continuation	Pro/Max/All Access processing that safely continues unfinished large or slow operations through Joomla Scheduled Tasks.
Recovery Vault	Protected verified copies retained before destructive QCSB operations and available for restore, download, or purge.
Restore original	Restore a protected item to its recorded original authorized location.
Restore to	Restore a protected item to another currently authorized connection and folder.
Purge	Permanently remove protected Recovery Vault content while retaining audit/action history.
Effective tier	The Basic, Pro, Max, or All Access feature tier currently recognized by license validation.
Installation UUID	A unique installation identifier used for licensing, update, and support context.
Authorized redirect URI	The exact callback address registered in Google Cloud or Microsoft Entra for one QCSB OAuth flow.
Signed item reference	A time-limited protected reference binding a selected item to the user, Workspace, location, path, kind, and metadata so altered requests are rejected.