



Spectra RioBroker

**Release Notes and
Documentation Updates**

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Part Number

90990142 Revision C

Revision History

Revision	Date	Description
A	April 2019	Initial release.
B	August 2019	Updated for the RioBroker 1.0.2 release.
C	January 2020	Updated for the RioBroker 2.0 release.

Note: To make sure you have the release notes for the most current version of the RioBroker software, log into the Spectra Logic Technical Support portal at support.spectralogic.com. The release notes also include updates to the product documentation.

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ABOUT THIS GUIDE

These release notes give you the latest information available about the Spectra® RioBroker application. They also serve as an addendum to the published documentation for the system.

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Note: To make sure you have the release notes for the most current version of the Spectra RioBroker software, log on to the Spectra Logic Technical Support portal at support.spectrallogic.com. The release notes also include updates to the product documentation.

INTENDED AUDIENCE

This guide is intended for system administrators of a system with RioBroker installed.

RELATED PUBLICATIONS

The following documents related to the Spectra RioBroker application are available on the Support Portal website at support.spectrallogic.com.

- The *Spectra RioBroker Application User Guide* provides information about installing, configuring, and using the Spectra RioBroker application.
- The *RioBroker Partial File Restore Plugin Installation and User Guide* provides information on installing, configuring, and using the PFR plugin.
- The *Spectra BlackPearl Converged Storage System User Guide* provides detailed information about configuring, using, and maintaining your Spectra BlackPearl system.
- The *Spectra BlackPearl Release Notes and Documentation Updates* provide the most up-to-date information about the BlackPearl system, including information about the latest software releases and documentation updates.

TYPOGRAPHICAL CONVENTIONS

This document uses the following conventions to highlight important information:



WARNING

Read text marked by the “Warning” icon for information you must know to avoid personal injury.



Caution

Read text marked by the “Caution” icon for information you must know to avoid damaging the library, the tape drives, or losing data.



Important

Read text marked by the “Important” icon for information that helps you complete a procedure or avoid extra steps.

Note: Read text marked with “Note” for additional information or suggestions about the current topic.

USER FEEDBACK

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RioBroker Application Software Updates

This section provides an overview of the features and changes for each released software version.

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PACKAGE HISTORY

The following sections list the released Spectra RioBroker update packages, and provide information about new features and updates that affect the application and its components.

RioBroker 2.0

Enhancements

This release improves the user interface, error messages, error handling, and swagger documentation, and adds the new features listed in the table below. See the *Spectra RioBroker Application User Guide* and the Swagger documentation for more information.

Feature	Description
Endpoints	Endpoints can now be pre-configured to replace URIs for FTP and S3 sources and targets.
Log Sets	The Spectra RioBroker application automatically creates error logs and writes event information into log files for troubleshooting purposes. A log set, which gathers all current logs, can be generated manually.
Reports	The RioBroker application provides custom file movement reports that allow users to see how and where files were moved.
Full Handling of SGL Imports	The RioBroker application can now seamlessly import SGL LTF5 tapes.
Enhanced API	New commands were added for logs, reports, and endpoints. See the swagger documentation for more information.
New Java™ Version	Oracle® Java has been replaced by Amazon® Corretto® OpenJDK.

Resolved Issues

Issue	Resolution
The RioBroker solution fails to create new jobs when the number of active jobs is above 10,000.	When the number of active jobs is above 10,000 the RioBroker solution now queues new job requests instead of failing them.
When a file exists in a location and the RioBroker solution restores a smaller file of the same name to the location, only the beginning of the original file is overwritten.	The destination file is now deleted and replaced by the restored file.
Canceled restore job shows error rather than canceled status.	This issue no longer occurs.
Program data is stored on the C:\ drive even when the program is installed in a different location.	On new installs, the installer will allow you to choose the location for the program data.
A restore job is accepted but the restore fails when a target file name contains an un-escaped special character.	Now, only validly formed URIs are accepted during job creation.
If you set the data path for a Spectra device using HTTPS://, or omit HTTP:// or HTTPS://, the user interface prepends HTTPS://, which does not work with BlackPearl systems.	You can now enable HTTPS:// connectivity with BlackPearl systems. If you do not specify HTTP:// or HTTPS://, HTTPS:// is used.
Adding ',' (comma), '=' (equals), ' ' (vertical bar), or ' ' (space) to the metadata on an archive job causes the job to get stuck in the queue.	This issue no longer occurs.
If RioBroker encounters a network interruption longer than approximately 1 minute, any active archive job status is marked as 'ERROR' and the job must be retried.	RioBroker now recovers without user intervention from a network interruption to a BlackPearl system of up to 5 minutes, and displays a message to the user that the job has stalled due to network connectivity problems after 30 minutes of network interruption.
Special characters in object metadata are not escaped properly and causes the index size to grow.	This issue no longer occurs.
During a partial file restore re-wrap operation or an SGL tape import, temporary files display in job status tables.	This issue no longer occurs.
A Management Interface link on the Spectra Devices screen for a device created outside the RioBroker user interface does not redirect properly.	HTTPS:// is now prepended so that the Management Interface link redirects correctly.
Jobs do not resume if the RioBroker application is restarted.	Jobs now resume when the RioBroker application is restarted.

Issue	Resolution
Jobs may be marked as completed although file transfers have a status of failed.	Job statuses now correctly indicate if any file transfers have failed.
When trying to list relationships for all Brokers using a wild card asterisk for the Broker Name, the RioBroker application returns a 404 error.	You can now use a wild card for the Broker name and get a list of relationships for all brokers.
When a job is canceled in the RioBroker application, files written to cache are deleted from the BlackPearl system and the RioBroker database.	Now when a job is canceled in the RioBroker application, any files fully written to cache are persisted and maintained in the BlackPearl system and the RioBroker application.
Broker names are treated as case-sensitive in a search even though the RioBroker application changes broker names to all lower case.	This issue no longer occurs.

Known Issues

Issue	Workaround
The timestamp returned from a <code>get agentConfig</code> API query incorrectly appends “[UTC]” to the end of the timestamp.	Ignore the appended text.
If you delete a Spectra device while an archive job is active, the job incorrectly reports as canceled.	Although reported as canceled, the job actually continues to completion.
If you delete a Spectra device and then create a new Spectra device using the same name, but with a new configuration, the old configuration is used instead of the new one.	Restarting the RioBroker service clears the old configuration.
If you update your credentials on a BlackPearl system, you cannot update your credentials within the RioBroker user interface.	Restarting the RioBroker service retrieves the new secret key.
You can successfully create an archive job with a relationship containing special characters such as '&', '*', and '?'. These characters then interfere with relationship searching.	Do not create an archive job with a relationship using special characters.
Files incorrectly retain the status of “Transferring” if a job is canceled.	There is no work around for this issue.

RioBroker 1.0.2 Application

Operation Retry Time Reduced When an object is loaded into cache during a restoration operation, the RioBroker application now only waits approximately 15 seconds to begin transferring the file from cache to the restoration target location.

Concurrent Transfer Improvements The RioBroker application now processes up to 64 transfers concurrently.

Resolved Issues

Issue	Workaround
If an object with a filename containing an un-escaped special character is restored, the file restoration fails, but the RioBroker application incorrectly states that the restoration is successful.	This issue no longer occurs.
If the RioBroker application restarts with more than 100 active jobs, not all jobs resume correctly.	This issue no longer occurs.
The RioBroker application currently sends all files in a job to the BlackPearl system, regardless if one or more files is being processed in another job, causing the BlackPearl system to fail the second job.	The RioBroker application now ignores files that were processed in the first job, and the second job completes successfully.
When the RioBroker application attempts to transfer data to a BlackPearl system with a full cache, the program incorrectly cancels the job after approximately 30 minutes.	The RioBroker application will now allow up to 60 minutes for the BlackPearl system to clear its cache before failing the job.
When requesting partial file restore, the files are restored by the RioBroker application, but the job fails because a temporary file is deleted by the PFR plugin sooner than expected.	If this issue occurs, the error is logged by the RioBroker application, but the job does not fail.

RioBroker 1.0 Application

Known Issues

Issue	Workaround
If a broker has two agents assigned each to a different bucket, if there are duplicate file names in each bucket, when listing the objects for the broker, duplicate file names only appear in one of the buckets, typically whichever bucket was last used as a write target.	You must create another broker and separate the agents between the two brokers.
The Notifications feature is currently non-functional.	There is no workaround for this issue. This feature will be added in RioBroker 2.0.
After configuring a BlackPearl device in the RioBroker user interface, the status of the device does not display.	On the Devices page of the RioBroker user interface, click the displayed IP address of the BlackPearl system. If the user interface redirects to the login page of the BlackPearl system, the connection is considered good. Otherwise, contact Spectra Logic Technical Support. See Contacting Spectra Logic on page 9 .
The RioBroker application incorrectly allows a Verde array to be used as a Spectra device.	Only BlackPearl systems are supported as a Spectra device.
If a read-only agent is configured to use the same bucket as the read/write agent, if the read-only agent is deleted, the RioBroker application incorrectly attempts to use the agent when restoring files, generating an exception error.	On the Brokers page, delete the read-only agent, then re-index the read/write agent using the override index parameter.
Jobs that are canceled in the RioBroker application may incorrectly show a state of “Transferring” after they are canceled.	Ignore the Status column for canceled jobs.
When a restore job containing multiple blobs is canceled, the BlackPearl system continues to process additional blobs before the job is fully canceled.	There is no workaround for this issue.

Documentation Updates

RIOBROKER USER GUIDE

The *Spectra RioBroker User Guide* is current as of the release of RioBroker 2.0.