Spectra Logic RioBroker Certification Test Plan

Introduction

The document describes the certification tests for a Spectra Logic RioBroker integration. In order to receive certification from Spectra Logic, this completed document must be submitted to your Spectra Logic Certification and Testing Manager for review. Before submitting this document, you must have submitted and received acceptance from Spectra Logic for the Spectra Logic RioBroker Certification Program Questionnaire. For additional information, see the Spectra Logic Developer Program website at https://developer.spectralogic.com.

Testing must be done with a real RioBroker installation using the BlackPearl simulator or a real BlackPearl.

All tests are required to be performed unless stated otherwise.

The remainder of this document assumes that the user is familiar with details of the RioBroker API, the BlackPearl product, and information contained on the Spectra Logic Developer Program website.

Test Setup, Installation of the Host Client Software, Connection to RioBroker and BlackPearl and Configuration

Once you are ready to begin testing, your Spectra Logic Certification and Testing Manager will work with you to determine the appropriate test setup, test equipment requirements, test time, installation of host software and client, and other testing program details. Review the installation of your product, RioBroker, and BlackPearl connection and configuration to verify that everything is working properly prior to commencing the testing.

Testing can be done at your site or the Spectra Logic Testing and Certification Lab in Boulder, Colorado.

Logging, Result Capture, and Live Demo Requirements for Certification

- Log files: Please pull a log set from RioBroker when directed in the test plan steps below. These log files are used to assist with confirming proper Interface behavior and debugging any failures that may occur. RioBroker logs can be found in C:\ProgramData\SpectraLogic\SpectraRioBroker\logs.
- Screen Captures: Screen captures will be required for the tests to enable Spectra Logic to verify test results and certify your product. Please ensure that the person performing the test understands how to capture screen images and paste them into this document.
- Live Demo: Once this test plan, along with test results, have been submitted and accepted by Spectra Logic, Spectra Logic will contact you to schedule a live demonstration of archive and restore operations by your RioBroker integration. This live demonstration can be done at Spectra Logic headquarters or remotely via WebEx or similar screen sharing technology. You will not receive certification until Spectra Logic concludes that you have passed all tests and that this live demonstration is successful.

You must complete the following information in order to receive certification.

Organization/Tester Information
Organization Name: Dalet Digital Media Systems
Tester Name: Oliver Lockwood, Lincoln Spiteri
Tester Contact Information (email and phone): +44(0)7901 510 606
Oliver: olockwood@dalet.com Lincoln: lspiteri@dalet.com

Product and Configuration Information
Your Application's Name: Dalet Flex
Application Software Version: Flex 2021.3.0
Application's RioBroker Client Software Version (if different than above):
Spectra Logic RioBroker Version: 2.0.0
RioBroker .NET SDK Version (if used):
BlackPearl Version: 5.2.1

Testing the RioBroker Integration

To get started with testing, set up the RioBroker system as needed: Install RioBroker, set up a cluster, initialize a Spectra device, create a broker with default agent of the Spectra device, and make sure at least one primary storage target is installed with valid credentials on the RioBroker server.

Tests in this document have been performed using BlackPearl Labs system.

Test #1: Test for error reporting and handling of invalid/missing bucket.

Goal: To ensure application properly reports and handles unexpected error conditions on archive, displaying the RioBroker error description.

- Attempt to archive files using RioBroker after BlackPearl bucket has been deleted.
 - a) Using your application and RioBroker, create Spectra device, then create associated broker and agent.
 - b) Attempt to archive some files, confirm successful transfer.
 - c) Delete BlackPearl bucket. In the BlackPearl web management interface, go to Configuration -> Buckets. Single click on the bucket being used by RioBroker, then go to Action -> Delete.
 - d) Restart the "Spectra Rio Broker Server" service.
 - e) Attempt to archive files again. Capture a screen image that clearly shows your application's error (this should include the RioBroker error message). Paste the screenshot below:

Attempt to archive files using RioBroker after BlackPearl bucket has been deleted

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After the test is complete recreate the bucket that was deleted in this test.

Test #2: Test for error reporting and handling of a restore when the file does not exist. Goal: To ensure that the client properly reports and handles unexpected error conditions on restore, displaying the RioBroker error description.

• Attempt to restore a file from RioBroker that does not exist

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- a) Archive one or more files to RioBroker using your application.
- b) Delete one of these files using a BlackPearl client such as the Eon Browser (https://developer.spectralogic.com/clients) or delete the file via RioBroker using an HTTP/REST command.
- c) Attempt to restore the deleted file through your application.
- d) Capture a screen image that shows your application's error (this should include the RioBroker error message). Paste the screenshot below:

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Test #3: Test archive of 100 files.

Goal: To ensure that your application can perform an archive of multiple files at once. This test verifies that the archive process keeps RioBroker data movers working efficiently and reasonable throughputs can be achieved.

• Archive 100 files to RioBroker

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- a) If testing in the Spectra lab, ingest 100 files from \\10.85.41.34\TestFiles\250x1GB (or another location provided to you by Spectra Logic). If your application does not need to ingest files, they can be archived directly from the above location.
- b) Issue a command to archive the 100 files to RioBroker simultaneously
 - Note:
 - The 100 files should be either in a single command (100 files in one archive command) or multiple separate commands (one or more files per archive command).
 - If the 100 files are sent to RioBroker in separate commands, some level of concurrency must be demonstrated. Please describe how many jobs can be run in parallel and, if changeable, show where the concurrency setting is configured within your application.
- c) Wait until the file transfers have completed before continuing.
- d) Capture a screen image that shows your application indicating that the transfer of the 100 files has completed. Paste the screenshot below:

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D Type	Name	Asset Title	Scheduled Created Last Modified Started Ended Duration Created by	Status Account Workspace
29 📋	RioBroker Delete	Asset-7-0d318606-b1d9-46d0-a9f5-a16cc925ff13	May-2021 09:54:13 18-May-2021 09:54:13 18-May-2021 09:54:16 18-May-2021 09:54:14 18-May-2021 09:54:16 2 sec. Admin BP	Completed BlackPearl BlackPearl Test Test >>>
28	RioBroker Delete	Asset-1-ab6a6ae4-c78a-41b9-8659-306e9232e690	May-2021 09:54:02 18-May-2021 09:54:02 18-May-2021 09:54:05 18-May-2021 09:54:03 18-May-2021 09:54:05 2 sec. Admin BP	Completed BlackPearl BlackPearl >> Test Test
27	RioBroker Delete	Asset-6-dd14b664-2c80-4ccd-b342-326ba2c9e441	May-2021 09:53:45 18-May-2021 09:53:45 18-May-2021 09:53:49 18-May-2021 09:53:47 18-May-2021 09:53:49 2 sec. Admin BP	Completed BlackPearl BlackPearl >>
26	RioBroker Delete	Asset-10-8877691c-16bb-4fae-b3a4-4abc90cde264	May-2021 09:53:43 18-May-2021 09:53:43 18-May-2021 09:53:46 18-May-2021 09:53:44 18-May-2021 09:53:47 3 sec. Admin BP	Completed BlackPearl BlackPearl >>
25	RioBroker Delete	Asset-9-33471d39-a663-45b1-b055-a0f114d509ca	May-2021 09:53:39 18-May-2021 09:53:39 18-May-2021 09:53:42 18-May-2021 09:53:40 18-May-2021 09:53:42 2 sec. Admin BP	Completed BlackPearl BlackPearl >>
24	RioBroker Delete	Asset-2-692c81f7-bc67-4e5a-a6a3-7e9b14e12915	May-2021 09:53:24 18-May-2021 09:53:24 18-May-2021 09:53:28 18-May-2021 09:53:25 18-May-2021 09:53:28 3 sec. Admin BP	Completed BlackPearl BlackPearl >>
23	RioBroker Delete	Asset-4-db185ecd-1ed0-4cbb-8f65-3de653c8fe20	May-2021 09:53:04 18-May-2021 09:53:04 18-May-2021 09:53:08 18-May-2021 09:53:05 18-May-2021 09:53:08 3 sec. Admin BP	Completed BlackPearl BlackPearl >>
22	RioBroker Delete	Asset-8-d1394e16-e8tc-4364-a174-c54133712ea9	May-2021 09:52:51 18-May-2021 09:52:51 18-May-2021 09:52:58 18-May-2021 09:52:55 18-May-2021 09:52:58 3 sec. Admin BP	Completed BlackPearl BlackPearl >>
21	RioBroker Delete	Asset-5-503e144c-f0a8-46d3-9074-aea8a7153648	May-2021 09:51:54 18-May-2021 09:51:54 18-May-2021 09:51:57 18-May-2021 09:51:55 18-May-2021 09:51:57 2 sec. Admin BP	Completed BlackPearl BlackPearl >>
20	RioBroker Delete	Asset-3-c265148c-8H3-4827-8304-94e3b04d3cbf	May-2021 09:51:29 18-May-2021 09:51:29 18-May-2021 09:51:31 18-May-2021 09:51:29 18-May-2021 09:51:31 2 sec. Admin BP	Completed BlackPearl BlackPearl >>
19	RioBroker Restore	Asset-10-8877691c-16bb-4fae-b3a4-4abc90cde264	May-2021 09:50:19 18-May-2021 09:50:19 18-May-2021 09:53:43 18-May-2021 09:50:20 18-May-2021 09:53:43 3.38 min. Admin BP	Completed BlackPearl BlackPearl >>
18 📋	RioBroker Restore	Asset-6-dd14b664-2c80-4ccd-b342-326ba2c9e441	Aay-2021 09:50:19 18-May-2021 09:50:19 18-May-2021 09:53:45 18-May-2021 09:50:20 18-May-2021 09:53:45 3.42 min. Admin BP	Completed BlackPearl BlackPearl >>
7 👖	RioBroker Restore	Asset-9-33471d39-a663-45b1-b055-a0f114d509ca	May-2021 09:50:17 18-May-2021 09:50:17 18-May-2021 09:53:38 18-May-2021 09:50:19 18-May-2021 09:53:38 3.32 min. Admin BP	Completed BlackPearl BlackPearl >>
16 📋	RioBroker Restore	Asset-7-0d318606-b1d9-46d0-a9f5-a16cc925#13	Aay-2021 09:50:17 18-May-2021 09:50:17 18-May-2021 09:54:13 18-May-2021 09:50:19 18-May-2021 09:54:13 3.9 min. Admin BP	Completed BlackPearl BlackPearl >>
15 📋	RioBroker Restore	Asset-1-ab6a6ae4-c78a-41b9-8659-306e9232e690	Aay-2021 09:50:13 18-May-2021 09:50:13 18-May-2021 09:54:01 18-May-2021 09:50:14 18-May-2021 09:54:01 3.78 min. Admin BP	Completed BlackPearl BlackPearl Test Test
14 🏢	RioBroker Restore	Asset-2-692c81f7-bc67-4e5a-a6a3-7e9b14e12915	May-2021 09:50:10 18-May-2021 09:50:10 18-May-2021 09:53:24 18-May-2021 09:50:11 18-May-2021 09:53:24 3.22 min. Admin BP	Completed BlackPearl BlackPearl >>
13 📋	RioBroker Restore	Asset-4-db185ecd-1ed0-4cbb-8f65-3de653c8fe20	Nay-2021 09:49:46 18-May-2021 09:49:46 18-May-2021 09:53:03 18-May-2021 09:49:47 18-May-2021 09:53:03 3.27 min. Admin BP	Completed BlackPearl BlackPearl Test Test
12 📋	RioBroker Restore	Asset-8-d1394e16-e8tc-4364-a174-c54133712ea9	Nay-2021 09:49:34 18-May-2021 09:49:34 18-May-2021 09:52:50 18-May-2021 09:49:36 18-May-2021 09:52:50 3.23 min. Admin BP	Completed BlackPearl BlackPearl >>
11 👖	RioBroker Restore	Asset-5-503e144c-f0a8-46d3-9074-aea8a7153648	May-2021 09:49:05 18-May-2021 09:49:04 18-May-2021 09:51:53 18-May-2021 09:49:05 18-May-2021 09:51:53 2.8 min. Admin BP	Completed BlackPearl BlackPearl Test >>>
.0 📋	RioBroker Restore	Asset-3-c265148c-8ff3-4827-8304-94e3b04d3cbf	May-2021 09:48:43 18-May-2021 09:48:43 18-May-2021 09:51:28 18-May-2021 09:48:43 18-May-2021 09:51:28 2.75 min. Admin BP	Completed BlackPearl BlackPearl >>
•	RioBroker Archive	Asset-3-c265148c-8ff3-4827-8304-94e3b04d3cbf	May-2021 09:46:51 18-May-2021 09:46:51 18-May-2021 09:48:43 18-May-2021 09:46:53 18-May-2021 09:48:43 1.83 min. Admin BP	Completed BlackPearl BlackPearl >>
8 📥	RioBroker Archive	Asset-2-692c81f7-bc67-4e5a-a6a3-7e9b14e12915	May-2021 09:46:51 18-May-2021 09:46:51 18-May-2021 09:50:10 18-May-2021 09:46:52 18-May-2021 09:50:10 3.3 min. Admin BP	Completed BlackPearl BlackPearl >>
7	RioBroker Archive	Asset-1-ab6a6ae4-c78a-41b9-8659-306e9232e690	May-2021 09:46:51 18-May-2021 09:46:51 18-May-2021 09:50:13 18-May-2021 09:46:52 18-May-2021 09:50:13 3.35 min. Admin BP	Completed BlackPearl BlackPearl >>
6 🍝	RioBroker Archive	Asset-9-33471d39-a663-45b1-b055-a0f114d509ca	May-2021 09:46:51 18-May-2021 09:46:51 18-May-2021 09:50:17 18-May-2021 09:46:53 18-May-2021 09:50:17 3.4 min. Admin BP	Completed BlackPearl BlackPearl >>
5	RioBroker Archive	Asset-6-dd14b664-2c80-4ccd-b342-326ba2c9e441	Nay-2021 09:46:51 18-May-2021 09:46:51 18-May-2021 09:50:19 18-May-2021 09:46:53 18-May-2021 09:50:19 3.43 min. Admin BP	Completed BlackPearl BlackPearl >>
04 🍐	RioBroker Archive	Asset-4-db185ecd-1ed0-4cbb-8f65-3de653c8fe20	Nay-2021 09:46:51 18-May-2021 09:46:51 18-May-2021 09:49:45 18-May-2021 09:46:53 18-May-2021 09:49:46 2.88 min. Admin BP	Completed BlackPearl BlackPearl >>
3	RioBroker Archive	Asset-10-8877691c-16bb-4fae-b3a4-4abc90cde264	May-2021 09:46:51 18-May-2021 09:46:51 18-May-2021 09:50:19 18-May-2021 09:46:53 18-May-2021 09:50:19 3.43 min. Admin BP	Completed BlackPearl BlackPearl >>
12 🚔	RioBroker Archive	Asset-7-0d318606-b1d9-46d0-a9f5-a16cc925ff13	Aay-2021 09:46:51 18-May-2021 09:46:51 18-May-2021 09:50:17 18-May-2021 09:46:53 18-May-2021 09:50:17 3.4 min. Admin BP	Completed BlackPearl BlackPearl >>
01	RioBroker Archive	Asset-5-503e144c-f0a8-46d3-9074-aea8a7153648	Alay-2021 09:46:51 18-May-2021 09:46:51 18-May-2021 09:49:04 18-May-2021 09:46:52 18-May-2021 09:49:04 2.2 min. Admin BP	Completed BlackPearl BlackPearl >>
	RioBroker Archive	Asset-8-d1394e16-e8tc-4364-a174-c54133712ea9	May-2021 09:46:51 18-May-2021 09:46:51 18-May-2021 09:49:34 18-May-2021 09:46:52 18-May-2021 09:49:34 2.7 min. Admin BP	Completed BlackPearl BlackPearl >>
99 🌌	Import Asset	Asset-5-503e144c-f0a8-46d3-9074-aea8a7153648	Aay-2021 09:46:45 18-May-2021 09:46:45 18-May-2021 09:46:50 18-May-2021 09:46:47 18-May-2021 09:46:50 3 sec. Admin BP	Completed BlackPearl BlackPearl >>
98 🌄	Import Asset	Asset-2-692c81f7-bc67-4e5a-a6a3-7e9b14e12915	May-2021 09:46:45 18-May-2021 09:46:45 18-May-2021 09:46:50 18-May-2021 09:46:47 18-May-2021 09:46:50 3 sec. Admin BP	Completed BlackPearl BlackPearl >>
- 🐷	Import Asset	Asset-8-d1394e16-e8tc-4364-a174-c54133712ea9	May-2021 09:46:45 18-May-2021 09:46:45 18-May-2021 09:46:50 18-May-2021 09:46:47 18-May-2021 09:46:50 3 sec. Admin BP	Completed BlackPearl BlackPearl >>
6 🌌	Import Asset	Asset-7-0d318606-b1d9-46d0-a9f5-a16cc925ff13	Aay-2021 09:46:45 18-May-2021 09:46:45 18-May-2021 09:46:50 18-May-2021 09:46:47 18-May-2021 09:46:50 3 sec. Admin BP	Completed BlackPearl BlackPearl >>
95 🐺	Import Asset	Asset-6-dd14b664-2c80-4ccd-b342-326ba2c9e441	May-2021 09:46:45 18-May-2021 09:46:45 18-May-2021 09:46:50 18-May-2021 09:46:47 18-May-2021 09:46:50 3 sec. Admin BP	Completed BlackPearl BlackPearl >>
4 🌌	Import Asset	Asset-10-8877691c-16bb-4tae-b3a4-4abc90cde264	Aay-2021 09:46:45 18-May-2021 09:46:45 18-May-2021 09:46:50 18-May-2021 09:46:47 18-May-2021 09:46:50 3 sec. Admin BP	Completed BlackPearl BlackPearl >>
з 🌽	Import Asset	Asset-3-c265148c-8ff3-4827-8304-94e3b04d3cbf	Alay-2021 09:46:45 18-May-2021 09:46:45 18-May-2021 09:46:50 18-May-2021 09:46:47 18-May-2021 09:46:50 3 sec. Admin BP	Completed BlackPearl BlackPearl >>
92 🐺	Import Asset	Asset-1-ab6a6ae4-c78a-41b9-8659-306e9232e690	May-2021 09:46:45 18-May-2021 09:46:45 18-May-2021 09:46:50 18-May-2021 09:46:47 18-May-2021 09:46:50 3 sec. Admin BP	Completed BlackPearl BlackPearl >>
91 🍠	Import Asset	Asset-4-db185ecd-1ed0-4cbb-8f65-3de653c8fe20	Aay-2021 09:46:45 18-May-2021 09:46:45 18-May-2021 09:46:50 18-May-2021 09:46:47 18-May-2021 09:46:50 3 sec. Admin BP	Completed BlackPearl BlackPearl >>
90 🐺	Import Asset	Asset-9-33471d39-a663-45b1-b055-a0114d509ca	May-2021 09:46:45 18-May-2021 09:46:45 18-May-2021 09:46:50 18-May-2021 09:46:47 18-May-2021 09:46:50 3 sec. Admin BP	Completed BlackPearl BlackPearl >>

RioBrokerJobList

Aard Active Jobs Jobs that are currently running	Completed Jobs Jobs that have run to completion	Canceled Jobs Jobs that have been canceled	Failed Jobs Jobs that have failed to complete
Creation Date 🔺 🔻	Last Updated 🔺 🔻	Job Type 🔺 🔻	Total Size 🔺 🔻
2021-05-18T09:50:18.818Z[UTC]	2021-05-18T09:53:23.543Z[UTC]	RESTORE	1.6 GB
2021-05-18T09:50:18.768Z[UTC]	2021-05-18T09:53:23.543Z[UTC]	RESTORE	1.6 GB
2021-05-18T09:50:17.519Z[UTC]	2021-05-18T09:53:09.738Z[UTC]	RESTORE	1.6 GB
2021-05-18T09:50:17.434Z[UTC]	2021-05-18T09:53:38.725Z[UTC]	RESTORE	1.6 GB
2021-05-18T09:50:12.755Z[UTC]	2021-05-18T09:53:34.492Z[UTC]	RESTORE	1.6 GB
2021-05-18T09:50:08.9Z[UTC]	2021-05-18T09:52:50.355Z[UTC]	RESTORE	1.6 GB
2021-05-18T09:49:45.196Z[UTC]	2021-05-18T09:52:46.908Z[UTC]	RESTORE	1.6 GB
2021-05-18T09:49:34.225Z[UTC]	2021-05-18T09:52:36.367Z[UTC]	RESTORE	1.6 GB
2021-05-18T09:49:04.068Z[UTC]	2021-05-18T09:51:35.878Z[UTC]	RESTORE	1.6 GB
2021-05-18T09:48:42.062Z[UTC]	2021-05-18T09:51:03.749Z[UTC]	RESTORE	1.6 GB
2021-05-18T09:47:00.991Z[UTC]	2021-05-18T09:48:33.267Z[UTC]	ARCHIVE	1.6 GB
2021-05-18T09:46:59.934Z[UTC]	2021-05-18T09:50:12.217Z[UTC]	ARCHIVE	1.6 GB
2021-05-18T09:46:58.869Z[UTC]	2021-05-18T09:50:01.097Z[UTC]	ARCHIVE	1.6 GB
2021-05-18T09:46:57.797Z[UTC]	2021-05-18T09:49:19.945Z[UTC]	ARCHIVE	1.6 GB
2021-05-18T09:46:56.585Z[UTC]	2021-05-18T09:49:58.883Z[UTC]	ARCHIVE	1.6 GB
2021-05-18T09:46:55.519Z[UTC]	2021-05-18T09:49:57.76Z[UTC]	ARCHIVE	1.6 GB
2021-05-18T09:46:54.329Z[UTC]	2021-05-18T09:49:36.678Z[UTC]	ARCHIVE	1.6 GB
2021-05-18T09:46:53.264Z[UTC]	2021-05-18T09:49:45.477Z[UTC]	ARCHIVE	1.6 GB
2021-05-18T09:46:52.132Z[UTC]	2021-05-18T09:48:44.403Z[UTC]	ARCHIVE	1.6 GB
2021-05-18T09:46:51.225Z[UTC]	2021-05-18T09:49:23.21Z[UTC]	ARCHIVE	1.6 GB

- e) Save a copy of the RioBroker log file (rio-main.log), renamed as **Archive100.log**. Include this and all other log files with your test results.
 - Note: Rio logs are located on the RioBroker server at C:\ProgramData\SpectraLogic\SpectraRioBroker\logs\

Attached 167970_TestLogs.txt

Test #4: Test restore of 100 files.

Goal: To ensure that your application can perform a restore of multiple files at once. This test verifies that the restore process keeps RioBroker data movers working efficiently and reasonable throughputs can be achieved.

- Restore 100 files from RioBroker
 - a) Issue a command in your application to restore the 100 files archived in Test #3 from RioBroker.
 - Note:
 - The 100 files should be either in a single command (100 files in one restore command) or multiple separate commands (one or more files per restore command).
 - If the restore is sent in separate commands, some level of concurrency must be demonstrated. Please describe how many jobs can be run in parallel and, if changeable, show where the concurrency setting is configured within your application.
 - b) Wait until the file transfers have completed before continuing.
 - c) Capture a screen image that shows your application indicating that the restore of the 100 files has completed. Paste the screenshot below:

Restore 100 files from RioBroker	
Flex Restore Job History	
See others snapshot in previous section	
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Job: RioBroker Restore	Sasset View
	Search Jobs Advanced
Summary Config Locks Variables History	K Failed Jobs
System 12 May 2021	1439.32
Admin DP RoBroker restore job launched with ID: 8344e48e-8c11.4tas4584-cd114333co8 12 May 2021	
Addition (IP RodBroker will restore the asset with identifier: Asset 3-709 mov from BlackPearl, and write it to: endpoint://flex.dev.demo/SampleFile/Restored.Big/File_250ps.mov	
8 Anni D ² Anni	
The system stands during the jub RoBusker Restore	
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Brought to you by <u>Date Chunda</u> DEV	

- d) Save a copy of the RioBroker log file (rio-main.log), renamed as **Restore100.log**. Include this and all other log files with your test results.
 - Note: Rio logs are located on the RioBroker server at C:\ProgramData\SpectraLogic\SpectraRioBroker\logs\

As part of previous Test#3 section, simultaneous Archive and Restore jobs have been executed.

The following test is required if your application supports archiving and restoring of files into multiple brokers/buckets via RioBroker

Test #5: Test support of multiple brokers/buckets.

Goal: To ensure that the application provides user ability to archive to multiple independent brokers/buckets. Note that each RioBroker broker has a default agent which represents a single BlackPearl bucket.

- The application supports multiple brokers/buckets
 - a. Create two brokers/buckets (if the client supports broker/bucket creation)
 - i. Capture a screen image that shows how to create the additional buckets. Paste the screen image into below:

Multiple buckets creation screenshot N/A

- b. Archive data to both buckets
 - i. Capture screen images that shows the application completed with files in both buckets. Paste the screen images below: OK to use Eon Browser and show the two buckets/files via direct BlackPearl connection.

Files in both buckets screenshots

N/A

- c. GET data from both buckets
 - i. Capture screen images that show the application completed with files restored from both buckets. Paste the screen images below:

Files restored from both buckets screenshots N/A

The following test is required if your application supports time-based partial file recovery via RioBroker

Test #6: Test Partial File Recovery archive/index and restore/PFR. **Goal:** To ensure that your application supports the RioBroker PFR system and provides reasonable and clearly understandable messaging to the end user in the case of error

conditions.

- If the application supports restore of partial files from BlackPearl/RioBroker
 - a. Archive file using RioBroker
 - i. Capture a screen image that shows in your application that the file archived to RioBroker and was indexed for PFR. Paste the screen image into below:



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ii. Use an unsupported file (e.g. .txt) and alter the file extension to a format that the indexer will look at (.mxf ,.mov, etc.) and attempt to archive the file with PFR. Show error message below.

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RioBroker Password Password for the RioBroker API. Broker Name The name of the broker to be used for the archive operation. datest.fl		
Archive object name Expression to derive the unique name used to identify the archived object in BlackPeart, if expression is empty or resolves to an empty value, then the current asset filename will be used. For example: #(asset originalFilename) PFRTet		
Path Mappings Defines paths to given storage locations from Flox's perspective and RioBioker's perspective. Flex Base Path Identifies a base path within which Flex assets are stored, e.g. s3//bucket-name, Bic://Bicvites-enterprise/storage/media, etc. s3//Bicvites-enterprise/storage/media,	x-dev-dema/	
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lob: RioBroker Restore Lab	State View + New
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Broker URL The URL for RioBroker (e.g. https://1.2.3.4:5050).	
st Self-Signed Certs Set to true if the RioBroker URL is accessed via HTTPS and has a self-signed SSL certificate that is co	t is considered trusted. true
Broker Username Username for the RioBroker API. Broker Password Password for the RioBroker API.	spectra
ker Name The name of the broker to be used for the restore operation. Evenession in devise the universe name in identify the archived object in BlackBeart if evenession is em	dalet-llex-ga c anoth or peoples to an anoth
chive object name Expression to derive the unique name to identify the archived object in BlackPeart; if expression is emy value, then the current asset flemame will be used. For example: Elasset originalFlemame) by Manufacture Dedites to also access headbox from Device proceedings.	s empty or resolves to an empty PFRTest.mp4
h Mappings Defines paths to given storage locations from Flex's perspective and RioBroker's perspective. lex Base Path Identifies a base path within which Flex assets are stored, e.g. s3/bucket-name, file///flex/flex-enterp	nterprise/storage/media, etc. s3.1/lles-dev-demo/
ioBroker Base Path The path used by RioBroker to reach the same storage location, e.g. endpoint://s3-bucket-alias, file:///	Wer///kc/media, etc. endpoint/filex-dev-demo/
store Filename Expression to device the filename to be used when restoring the file. For example: #ijob workflow.work R In Time In Time or PFR (Plantial File Restore) - expression to device the wakes in other microseconds or thrm empty or resolves to an empty value, the methic wideo will be restored. For example, liveability.	workflowld)-afenset name) PFRTest-Restored mp4 htmmssFF format; if expression is 00.00:10:00
R of time empty or resolves to an empty value, the entire video will be restored. For example: #Variables.time R Out Time Detail File Restore) - expression to derive the value in either microseconds or hou- is empty or resolves to an empty value, the entire video will be restored. For example: #Variables.time	mecodeln) 000011000 http://www.commecodeln.com/

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Bhaunik Jodi created the job RioBriker Restore Lab	Show More		

- b. Retrieve partial file
 - i. Capture a screen image that shows successful retrieval of partial file that was successfully indexed. Paste the screen image below:

Partial file restored screenshot See above for more Restore screenshot

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Admin BP RicBroker will perform Partial Restore on timecode range: 00.00.10.00-00.0015.00	13-May-2021 11:20.48	
Admin BP RoBinker will restore the asset with identifier: PFR-Test-Asset-05.mult from BlackPearl, and write it to: endpoint.//flex-dev-demoiPFRTest/Restored-Test_Fie_AVC_1_50_720_50.mult	13-May-2021 11:20:48	
Admin BP Restoring Flex asset 85250, whose current location is: s37/flex.dev-demoPFRTest/Test_File_AVC_1_50_720_50p.md	13-May-2021 11:20:48	
System The system started running the job RioBroker Restore PFR	13-May-2021 11:20:47	
System The system created the job RioBroker Restore PFR	13-May-2021 11:20:46	
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ii. Capture a screen image that shows end user messaging if a PFR restore cannot be performed as well as options provided to the end user (e.g. recover entire file):

PFR restore failure screenshot

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Brannik Jachi Roßforker restore job launched with ID: 2dxd97e0-7e68-48x4-ae88-a056e55atds: Dammik Jachi	17-May-2021 11:56:05	
communications Redocloser with elementations PFRTlest.mp4 from BlackPearl, and write it to: endpoint/iflex.dev-demo/BlackPearlLabTestPFRTlest.Restored.mp4 Downini.com	17-May-2021 11:56:03	
Restaring Rex asset 65547, whose current location is: s3//ifex-dev-demo@lackPearlLabTest7865/c468-e383-4e13-8883-512379cc272b.mp4 Bhamik Jobf	17-May-2021 11:56:03 17-May-2021 11:56:03	
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The following test is required if your application supports importing of foreign LTFS tapes via RioBroker and BlackPearl.

Test #7: Test support of importing external files from RioBroker into your application (such as LTFS Foreign Tape imported into BlackPearl).

Goal: To ensure that your application has the ability to allow import of new files via RioBroker from foreign sources such as LTFS tapes. RioBroker has the ability to index the files on these tapes, but your application must then add these files to its database (if media asset management or similar application). Since any foreign LTFS tapes will be imported as read only, the suggested process is to import them into a new bucket, add a read only agent pointing to that bucket and let RioBroker scan the tape. More can be added at a later time but if the agent already exists, then RioBroker must be given a re-index command and your application must then scan for differences. Whatever the method the application supports, this process is intended to test that imports work, that your application issues the proper commands to add the agent or index the agent and that your database is then updated so the files can be used by the client.

- Your application must support some form of foreign file import functionality
 - a. Import single tape
 - i. Import a single foreign tape containing files into a bucket using the BlackPearl web management interface (Status > Tape Management, then Action > Import all Foreign LTFS Tapes.
 - ii. Verify the tape's State changes from "Foreign" to "Managed" on BlackPearl web management interface

iii. Verify that the application can be commanded to re-index the agent/bucket and that the number and size of recovered files/files matches expected contents of the tape. Capture screen images that shows before and after status of files in application. Paste the screen image into below:

Foreign files imported into your application screenshot

N/A

This test is required if your application supports the displaying/listing of files that are in RioBroker

Test #8: Test application ability to list files in a bucket/agent and optionally perform search. **Goal:** To ensure that the application can perform basic list operations with reasonable pagination and can perform directed and generic search across agents.

- If application can list files in a bucket, show that it can handle (paginate) a large list
 - a. Archive 500 or more files to RioBroker (can use files from prior tests above)
 - b. Capture a screen image from the application showing user interface with files displayed in a first page. Paste the screen image below:

First page of files screenshot

- N/A
 - c. Display the second page of files in the application.
 - d. Capture a screen image from the application showing user interface with files displayed in a second page. Paste the screen image below:

Second page of files screenshot

N/A

- If application supports file search:
 - a. Put an assortment of files in various buckets/agents

b. Verify that the application can direct search to a specific bucket/agent and paste the screen image below:

Search a bucket screenshot

N/A

c. Verify that the application can search across buckets and display the results to the user allowing actions on the results and paste the screen image below:

Search multiple buckets screenshot

N/A

Revision History

Version	Date	Author	Changes
0.1	1/22/19	DF	Initial format and content.
0.2	5/23/19	BS	Updated test case 1 to show the correct procedure for changing BlackPearl credentials.
0.3	6/4/19	BS	Updated test cases 3 – 6 to make transfer speeds recommended rather than required.
0.4	11/6/19	EL	Combined test cases 1 – 7 into four simplified tests, focused on demonstrating error handling and job creation performance for both archive and restore operations. Optional tests are now numbered 5 – 8.
0.5	3/31/2020	EL	Updated tests 3 and 4 (archive and restore of 100 files) to require some level of concurrency if files are in separate jobs.
0.6	7/15/2020	ZG	Updated test 1 to require deleting a bucket on BlackPearl rather than changing S3 credentials.