Bio-Rad
Laboratories, Inc.

Release Notes for the BR.io Cloud Platform

Version 1.10

December 2024

Contents

Introduction

You can use the BR.io Cloud Platform to remotely access functionality associated with your connected Bio-Rad instruments.

BR.io currently integrates with the following instruments:

- CFX Opus Real-Time PCR System

- PTC Tempo Thermal Cycler

- ChemiDoc Go^{TM} Imaging System

This document summarizes new features and improvements and provides a concise list of known issues.

Note: For detailed information regarding the supported instruments, refer to the corresponding instrument guides available at www.bio-rad.com.

Supported Browsers

BR.io is supported on the following browsers:

- Chrome desktop browser v108 and above

- Safari desktop browser v16 and above

New Features

Fleet Management

BR.io now includes the Fleet Management feature, enabling users to reserve one or more PTC Tempo instruments to:

- Assign protocols to instruments

- Open and close instrument lids

- Start and stop protocol runs as well as skip steps during a run on one or more instruments

Note: Fleet Management is currently not available for PTC Tempo 48/48, CFX Opus, and ChemiDoc Go.

Important: If any changes you make in Fleet Management aren't appearing (e.g., an instrument reservation, protocol assignment, or instrument control command), refresh the page to resolve any browser-related issues.

Known Issues

BR.io

- If the PTC Tempo protocol that you want to assign to a reserved instrument is missing from the Manage Reservations protocol dropdown list, verify that the protocol appears in the PTC Protocols page. To access this page, click the Create icon in the left navigation bar, then click Manage PTC Protocols.

- BR.io might deny a reservation request even if the system shows the instrument status as "Available" because more than one user is submitting a request simultaneously.

- Reserved instruments that complete the run of their assigned protocols might not automatically clear the protocol assignment. If this occurs, remove the assigned protocol, or assign a new protocol to the instrument in BR.io.

- If you have created an organization project or are assigned an organization project, you will not be able to access those project protocols from the My Brio dropdown if you are on any of the Fleet Management pages. You must navigate out of the Fleet Management page to access those files.

- The instrument Status column will always display "Connecting" if you click the Fleet Management icon after navigating out of Fleet Management or logging in to BR.io.

- The instrument status column may intermittently display "Connecting" for all instruments connected to BR.io when a user is on any Fleet Management page. However, this does not affect instrument connectivity to BR.io.

- The instrument Status column might continuously display "Connecting" when you navigate to the Fleet Management page and wait for the instrument status to load. If this occurs, either

  o Click on any icon in the left navigation bar to navigate to another page, then return to Fleet Management.

  o Refresh the web page.

- If the computer's time is not synchronized with official time, you cannot assign a protocol. Ensure that "Set Time and Date Automatically" is enabled, or restart the computer.

- You must refresh the BR.io web page after upgrading your PTC Tempo instrument to version 3.0 for it to appear in BR.io and to enable the Fleet Management features.

PTC Tempo

- You might encounter the following issues when linking your PTC Tempo instrument to BR.io:

  o If your browser is not connected to the network, submitting a valid instrument linking code prompts an invalid code error in BR.io.

  o You must use lower-case characters for your BR.io username, or the login fails during the linking process.

- If your PTC Tempo instrument loses internet connectivity, an in-progress run remains in progress in BR.io, and the instrument fails to upload a run report.

- If you are using a Safari browser and the PTC Tempo run report file name is between 252 and 255 characters, you cannot download the run report as a PDF. You must rename the file with fewer characters or use Google Chrome to download the PDF.

  - For content allowed in certain fields, note the following differences between BR.io and the PTC Tempo:

  Maximum time: In BR.io, you can set a maximum time for a protocol at 64800 seconds, but the PTC Tempo allows up to 64799 seconds only. If you enter 64800, the instrument automatically decreases the run time by 1 second.

  Non-GOTO step fields: In BR.io, you can edit the Increment and Extend fields in temperature and gradient steps; however, the instrument does not allow editing of those fields and ignores the BR.io values during the run.

  GOTO step counts: In BR.io, you can specify up to 9999 GOTO steps in a PTC Tempo protocol, but the instrument limits the user to 999 GOTO steps only. If you enter 1000 or more, the instrument automatically reduces the GOTO repetitions to 999.

  Protocol name: In BR.io, you can name a PTC Tempo protocol using up to 255 characters, but the instrument allows up to 32 characters only.

  Note: BR.io allows longer entries in alphanumeric character fields to support current and future connected instruments.

CFX Opus

- BR.io allows you to create CFX Opus protocols containing melt and temperature steps under 4° C, although those temperatures are not supported by CFX Opus instruments. To avoid issues with the run, ensure the temperature is 4° C or above.

- You must close the run successfully uploaded to your BR.io account dialog box soon after the run is completed, or BR.io incorrectly displays the CFX Opus status as Offline.

- If you navigate from the CFX run workflow while uploading a file, BR.io does not warn you about unsaved changes to your CFX run.

- For CFX Opus templates, note the following:

  o You must create CFX Opus run templates from an existing completed CFX run file.

  o You cannot open, view, or edit CFX Opus run templates independently.

  o After saving the run file created from a template, you cannot directly edit the sample list.

  o If the sample list contains fewer samples than the plate layout accepts, you must open the run file after it has been saved, and manually clear the unused wells from the plate.

- BR.io does not currently support the following:

- o   Analysis of .pcrd or .zpcr files containing legacy or user-calibrated fluorophores; you can upload the files in BR.io, but errors are likely if you work with the data in the Analysis module.

- o   Application-based analysis, such as standard curve/absolute quantification, gene expression/relative quantification, and allelic discrimination

Documentation

Click the following URL, and then click the ⑦ icon to access Help options.the online Help Center.
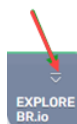
https://br.io

You can select from the following user documentation options:

- Help For This Page displays a help topic for the application page that is active

- Help Center opens the entire web-based help system

You must be logged in to see the Help icon.

You can also expand the EXPLORE.BR.io pane to access instrument-specific online help.

Contacting Technical Support

The Bio-Rad Technical Support department in the U.S. is open Monday through Friday, 5:00 AM to 5:00 PM, Pacific time.

Phone: 1-800-424-6723, option 2
Email: Support@bio-rad.com (U.S./Canada Only)

For technical assistance outside the U.S. and Canada, contact your local technical support office or click the Contact Us link at www.bio-rad.com.

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