

The bRename Server is a custom web server that can be accessed from a web browser. It scans the loaded project and groups its devices by room. One or more devices can be renamed at a time and once committed, the navigators can be refreshed to reflect the new names.

DRIVER PROPERTIES

DRIVER SETUP

Upgrade Mode	BNet Solutions drivers can automatically update themselves. Options are "Automatic", "Minor Only" and "Upgrade Now". See "Upgrade Mode" section below
Admin Server Enabled	Enables / Disables the driver's Admin Server. See "Admin Server" section below
Admin Port	Listening port assigned to Admin Server
Admin Token	Token required to access the driver's Admin Server

LICENSE SETUP

License Key	Key used to permanently enable driver functionality
License Status	Display current state of driver's license
Driver Version	Installed driver version
MAC Address	Unique network interface identifier for the Controller

SERVER SETTINGS

Server Enabled	Enables / disables bRename Server
Port	Port accepting requests for the bRename Server. http://[ControllerIp]:[Port] . Valid port range is 31300-31349.
Token	Authentication token required for access to bRename Server. "bRename" is default, "Blank" token disables authentication.

DEBUG SETTINGS

Debug Mode	Sets where the driver outputs debug information. See "Troubleshooting" section below for more information
Debug Level	Sets how much debug detail the driver outputs

ACCESSING THE SERVER

The bRename Server executes on your C4 Director and listens to a specific port for incoming connections. To access the server, point your browser to [http://\[controller ip\]:\[port\]](http://[controller ip]:[port]) where:

- controller ip: IP Address of your Control4 Director (EA5, EA3, EA1, etc). For example, 192.168.1.100
- Port: Default assignment is 31300, or as configure in driver Properties

Given the above controller IP, the bRename Server can be accessed at <http://192.168.1.100:31300>

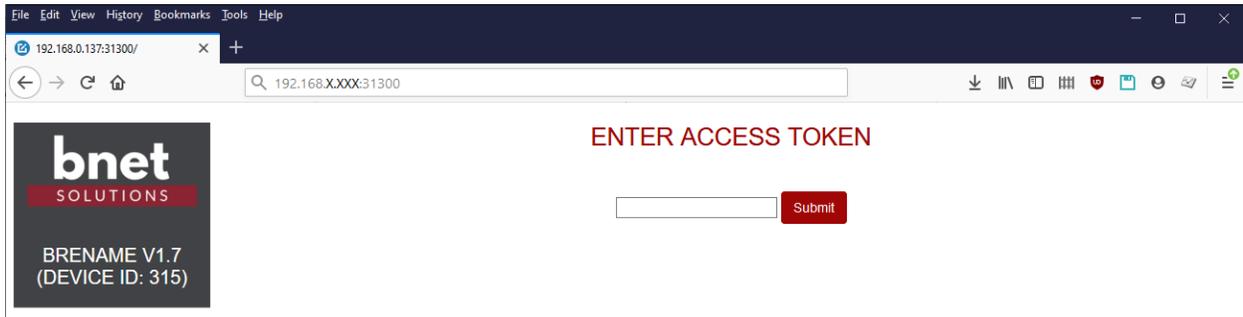
The bRename Server can also be accessed via a T3 touchscreen. Simply click on the

bRename Driver

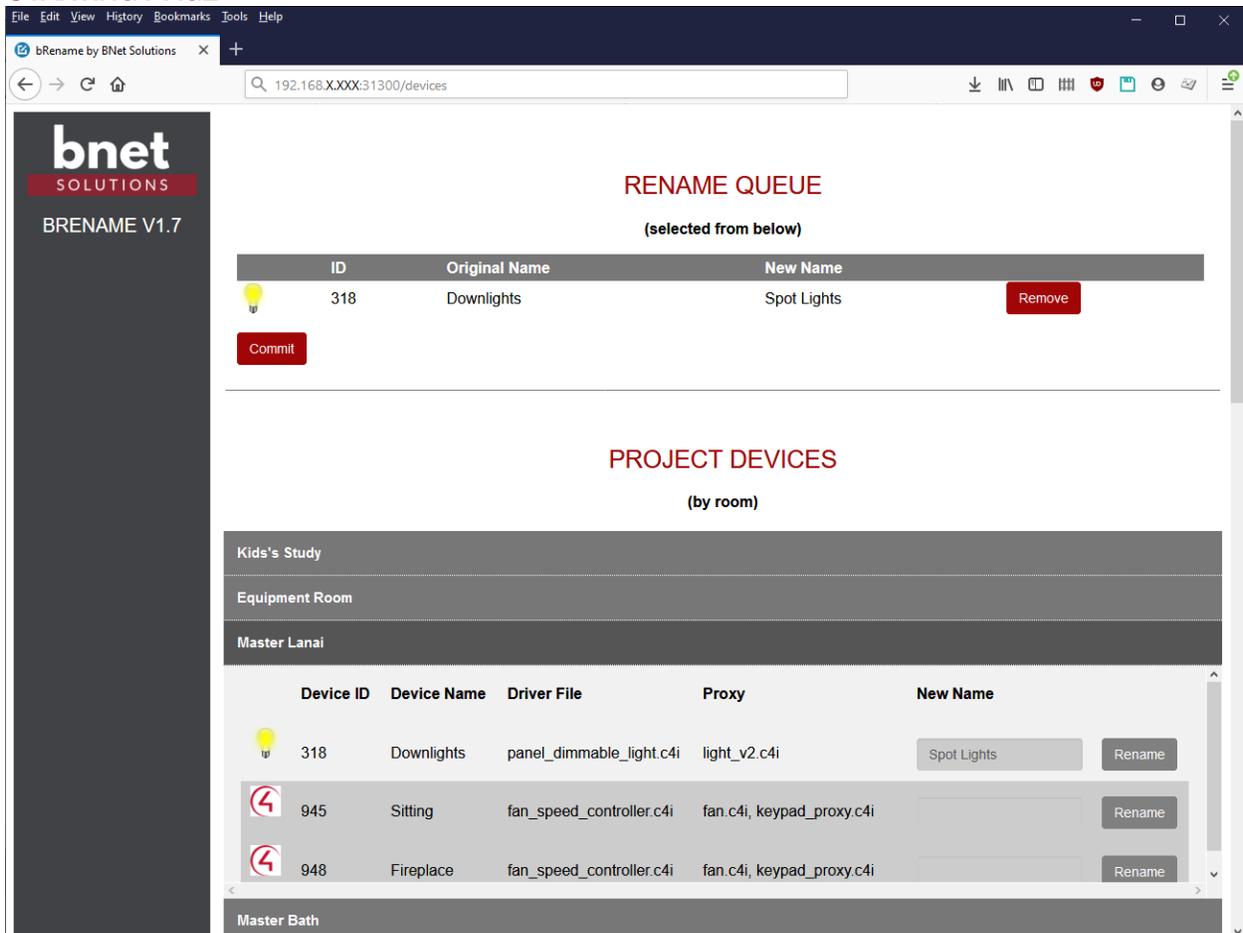
bRename icon to launch the touchscreen's internal web client and it will automatically be directed to the bRename Server.

ACCESS TOKEN

The Rename Server is protected by a challenge page that requires a token to continue. By default, the token is "bRename". Once authenticated, the token is stored in a cookie (technically hashed, then stored) so you won't need to log in every time. The token is configurable via the driver's property page.



STARTING PAGE



bRename Driver

PROJECT DEVICES

Project devices are grouped by project room name. Clicking on a given room will reveal a list of devices for that room. Not all devices are displayed in the list, only devices that use a Control4 Proxy. The technical design of Control4 drivers is not necessary to understand but know that the presentation of a driver you see on a navigator is controlled by a specific proxy. Because bRename is primarily intended for end-users who only view their projects through a browser or touchscreen, only devices that use proxies, and are therefore visible to the end-user, are displayed in the room list.

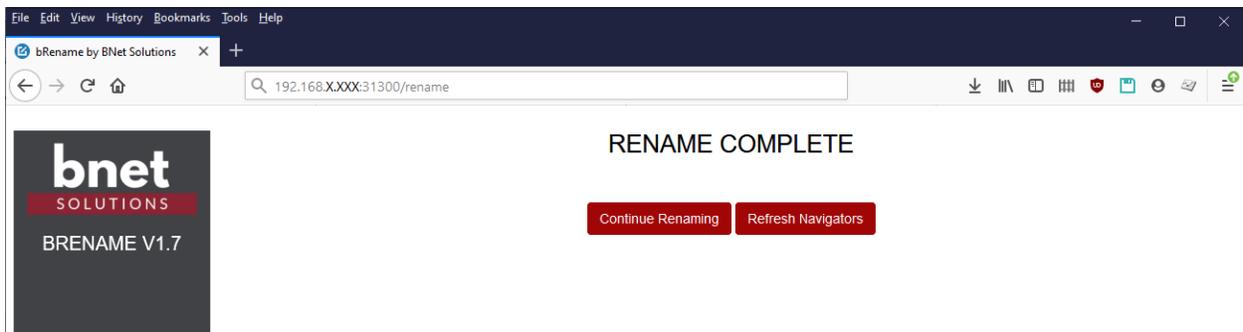
ADDITIONAL DEVICE SUPPORT

Some devices use more than one proxy. Because it is not always certain which proxy to use when renaming a device, renaming of multiple-proxy devices is currently disabled for some devices. bRename was designed to incorporate new device and proxy configurations dynamically so if you have a device you would like supported, please contact me.

RENAME QUEUE

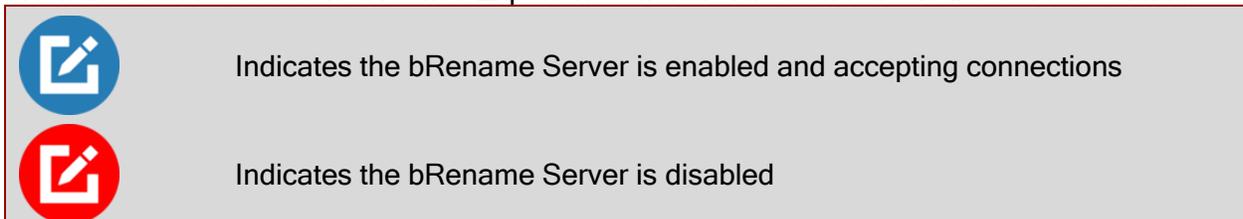
Devices selected for renaming are added to the Rename Queue. After reviewing the queue, "Commit" will save your changes. A device's new name will be updated immediately in Composer but when devices that are displayed on navigators are renamed, the navigator must be refreshed to reflect the new name.

Refreshing navigators is "expensive" both in terms of CPU cycles and time. A simple project could refresh in 30 seconds while a more complicated project may require several minutes. Best practice is to queue several changes at a time to limit the number of refreshes.



SERVER STATUS

bRename can be added to a room's Experience Menu. The icon reflects the Server's status.



ADMIN SERVER

BNet Solutions drivers' have a built-in webserver that looks and behaves like the Properties, Actions and Lua Output tabs for the driver in Composer. The Admin Server's default port for the bRename driver is 41300 and is configurable in the driver's properties. Using a web browser, navigate to [http://\[controller ip\]:41300](http://[controller ip]:41300) where "controller ip" is the IP Address of your Control4

bRename Driver

Director (EA5, EA3, EA1, etc). For example, <http://192.168.1.100:41300>. The Admin Server is protected by a challenge page that requires a token to continue. By default, the token is "bRenameAdmin". Once authenticated, the token is stored in a cookie (technically hashed, then stored) so you won't need to log in every time. The token is configurable via the driver's property page. The Admin Server is enabled by default but can be disabled entirely via the driver's property page.

KNOWN ISSUES AND LIMITATIONS

- Loading the devices page can be slow. bRename uses a Control4 API that loads device information about a project. On larger projects, this API loads, scan, parses and aggregates several thousand files to build its result. Your browser may pause on "Waiting for ..." for several seconds before displaying the devices page.
- The web browser embedded into touchscreens has resource issues and does not display larger projects correctly. If the project does not display correctly after about the 15th room, you will need to use a non-touchscreen browser.
- Control4 displays this type of a driver (a UI Button with a URL action) in the Control4 app on 3.x, but it does not display at all on 2.x. When displayed in the Control app, the icon will reflect bRename's server status but selecting it will not launch a web browser as it does on a touchscreen. You can, however, manually navigate to bRename from your mobile device's web browser.
- After the driver is updated via "Update Now", dynamically populated drop-down boxes may appear blank. Refresh the project (File/Refresh) or simply change focus away from, then back to this driver to repopulate. This seems to be a Composer issue.

UPGRADE MODE

BNet Solutions drivers can automatically update themselves. New driver functionality or capability is typically packaged as an incremental "Major" version (v3, v4 etc). "Minor" versions (v2.3, v2.4) are typically maintenance releases that update underlying libraries, address a specific issue or usability concern.

- | | |
|------------|--|
| Automatic | When "Automatic" is selected, the driver will upgrade/update itself when a new version is available. "Automatic" Upgrade Mode is strongly suggested. |
| Minor Only | Restricts the driver from upgrading between major versions but allows updates between minor versions. |
| Update Now | Checks for and upgrades to any newer Major or Minor version. |

TROUBLESHOOTING

All BNet Solutions products have an additional 'Submit' Debug Mode. With this mode selected, the driver creates a unique log file to capture the Lua output based on the selected Debug Level (usually set to "5 - Debug"). Once 'Submit' Debug Mode is deselected, either manually or when the Debug Timer expires, the Submit Debug Log is uploaded to the BNet Solutions Server for analysis.

The server notifies me when Submit files are uploaded but if you have not purchased a license, I have no way to reach out to you for troubleshooting so please email me your contact information.

TRIAL AND PURCHASE

All BNet Solutions drivers are fully functional for a 7-day Trial Period. To continue usage after the Trial Period, you will need to purchase a license. To do so, install the bLicense driver from <https://bnet4solutions.com> and follow the documented purchase steps. There are no refunds so please review the documentation for any limitations or known issues and determine acceptance

bRename Driver

during the Trial Period.

LEGAL

By using this driver, you are indicating that you have read and agree with the Policies and Terms that govern its usage as published [here](#).

MY CONTACT INFORMATION

You can reach me at blucas@bnet4solutions.com for comments or questions.

CHANGE LOG

v1 - 1/20 Initial Release