

bEgaugeMonitor is a driver that uses the built-in 'Usage' and 'Generation' registers of a connected eGauge device to track power consumption and production over a period of time. The driver uses the UI Proxy to present the totals and net power to the user.

In my setup, bEgaugeMonitor collects usage and generation data for a daily summary. Using the Scheduling Agent, a 'Mark Start Time' event is triggered at midnight and a 'Mark End Time' event triggers at 11:59p. A Report event is triggered at midnight before the 'Mark Start Time' to collect and report values for the day.

Setup

- 1) Enter the IP address of your eGauge device
- 2) Choose the Register to monitor

*Remember to configure the driver visibility after installation. Like all UI devices, the driver can be visible Comfort, Listen, Security or Watch. Remember to 'Refresh Navigators' after installation.

Usage

bEgaugeMonitor starts tracking usage and generation when 'Mark Start Time' is invoked. The total registers are recorded and compared to the values captured when 'Mark End Time' is invoked. All values can be view on the driver's property page or read/used programmatically via the driver's corresponding variables.

By default, the bEgaugeMonitor icon will show the Net KWh consumption/production since the last 'Start Time' - green numbers represent a positive net, red a negative net.

The icon is updated every 15 minutes. The update works reliably on all connected UI devices (T3s, EA1, etc) and on the Control4 app when the app is open and the icon is visible in the current view. It does not update reliably when the app is closed, or the icon is not visible in your current view.

To help address this 'feature', a single-click will invoke the 'Mark End Time' event AND update the icon to the current net value. You will know the driver registered the click and is updating when you see the 'dot-dot-dot' icon.

Two or more clicks (within 2 seconds) will start an icon rotation beginning with Usage (seen after 'Use' icon), Generated (seen after 'Gen' icon) followed by current Net (seen after 'Net' icon).

Known Issues and Limitations

- This driver must be installed from a file named "bEgaugeMonitor.c4z" otherwise bLicense (the driver used to purchase activation keys) will not recognize it as a valid driver. This is especially important with subsequent driver versions as many OSs will not overwrite downloaded files but will rename the newly downloaded file to something like driver(1).c4z.
- 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

bEgaugeMonitor Driver

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. 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 will have no way to reach back 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 during the Trial Period.

Contact Information

You can reach me at blucas@bnet4olutions.com for comments or questions.

Change Log

- v1 - Beta Release (3/19)
- v2 - Initial Release (5/19)
- v3 - Updated architecture (7/19)
- v4 - Added auto-update functionality (11/19)