

About OutBack Power

OutBack Power is a leader in advanced energy conversion technology. OutBack products include true sine wave inverter/chargers, maximum power point tracking charge controllers, and system communication components, as well as circuit breakers, batteries, accessories, and assembled systems.

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Date and Revision

June 2020, Revision B



IMPORTANT:
Not intended for use with
life support equipment.

CSIP Bridge

Audience

These instructions are for use by qualified personnel who meet all local and governmental code requirements for licensing and training for the installation of 120/240 Vac power systems with AC and DC voltage up to 600 volts. They must also be familiar with communication networks and basic computer skills. This product enables secure communications with the utility. Its installation may be stipulated as part of the interconnection agreement. Complete installation may require personnel well versed in the agreement, communications networks, and all local and government code requirements. Failure to install or use this equipment as instructed in the literature can result in damage to the equipment that may not be covered under the limited warranty. This product is only serviceable by qualified personnel.

Introduction

The CSIP (Common Smart Inverter Profile) Bridge is an IEEE 2030.5-certified gateway. It communicates with the MATE3s System Display and Controller. When installed on a network (Ethernet) with the MATE3s, the CSIP Bridge enables communication between the MATE3s (and the inverters connected to it) and the utility company.



NOTE

In the future, utility companies *may* begin issuing event schedules for active and reactive power values, as well as power modes and other settings.

Requirements

- MATE3s System Display and Controller
- Radian or FXR inverter installation with associated components
- Must be on the same local area network as the MATE3s
- Requires MATE3s firmware 001.004.003 or above
 - Does not need to be located near the MATE3s
- Requires the use of a USB power supply (provided)
- Requires a USB computer connection for initial configuration (cable provided)
- Must be installed indoors

Features

- LED indicators **A** and **B** (located inside housing)
 - Indicator **A** will pulse when unit is in operation
 - Indicator **B** will illuminate when unit is powered up
- USB (Micro-B) port **C**
 - Used for power
 - Also used for communications during initial boot-up
- Ethernet communications port **D**
- USB (A) port **E**
 - Not used at this time

Applicability

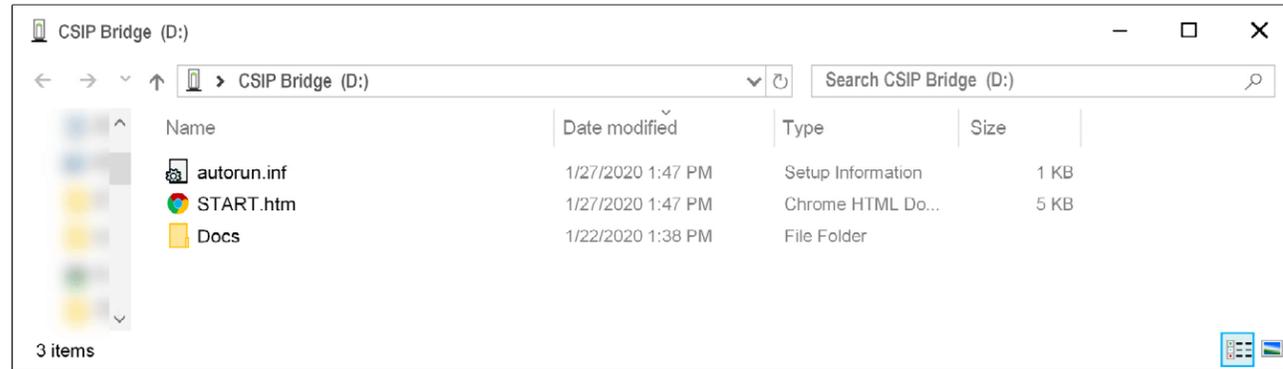
- Requires MATE3s firmware 001.004.003 or above
- The following inverters are SunSpec 2030.5 CSIP certified:
 - Radian A Series Inverter / Chargers
 - ✓ GS8048A
 - ✓ GS4048A
 - ✓ FLEXpower Radian integrated systems
 - FXR / VFXR A Series Inverter / Chargers
 - ✓ FXR2524A
 - ✓ FXR3048A
 - ✓ VFXR3524A
 - ✓ VFXR3648A



Setup

To install the CSIP Bridge:

- 1) Connect any computer to the same local area network (Ethernet LAN) as the MATE3s
- 2) Connect the CSIP Bridge to the computer using the provided USB cable (at **C**)
- 3) After a short delay, the CSIP Bridge will appear on the computer as a USB-connected device.



- 4) Click **START** to bring up the following screen.
- 5) Bring up the Configuration screen by following the instructions on the image below. Click the IP address of the active connection.



CSIP Bridge Configuration

The CSIP Bridge is a 2030.5 certified gateway that communicates with the MATE3s through a shared network connection.

Power and boot

The CSIP Bridge includes a USB cable, providing a convenient way to both power and configure the device. After configuration is complete, device power is provided by the included power cable.

Enable the network connection

When connected via USB, a network adapter should show up on your computer. The CSIP Bridge will provide your computer with an IP address of either 192.168.7.1 or 192.168.6.1, depending on the type of USB network adapter supported by your computer's operating system. The CSIP Bridge will reserve 192.168.7.1 or 192.168.6.1 for itself.

The below table summarizes the typical addresses and should dynamically update to indicated an active connection. Please be patient, as connection verification can take several seconds (some browsers may require use of the "REFRESH" button). Once a connection has become Active, click on the IP address of the corresponding connection to navigate to the configuration screen.

| IP Address | Connection Type | Operating System(s) | Status |
|-------------|-----------------|---------------------|----------|
| 192.168.7.2 | USB | Windows | Active |
| 192.168.6.2 | USB | Mac OS X, Linux | Inactive |

- 6) Fill out the Configuration screen. Populate all fields with the values from the appropriate devices.



CSIP Bridge Configuration

Utility Server Address, Port, Device Capabilities (dcap) Path and PIN

ex: 12.34.56.78 ex: 1234 ex: dcap ex: 123455 Connected:

Mate3s IP Address and Port

ex: 192.168.1.11 ex: 1234 Connected:

CSIP Bridge IP Address, Subnet Mask, and Default Gateway

Leave IP address blank then submit to enable dynamic addressing. Change the IP address then submit to enable static addressing.

ex: 192.168.1.10 ex: 255.255.255.0 ex: 192.168.1.1 DHCP:

Device Identification

CSIP Bridge SFDI and LFDI

sfdi unknown lfdi unknown

Troubleshooting

[View log](#)

Update - Current Version: 0.0.1

No file chosen

IMPORTANT:

If the MATE3s is assigned a new IP address, the CSIP Bridge configuration screen must be updated to reflect the change. Note that an automatic reboot should not result in a new IP address when a DHCP server is used, as the server retains a MAC address table and is able to reassign the same IP address.

Configuration is complete.

To finish installation:

- 7) Remove power. Unplug the USB cable from **C**.
- 8) Connect the CSIP Bridge to the network. Connect a cable to the network router. Connect the other end of the cable to the CSIP Bridge at **D**.
- 9) Repower the CSIP Bridge using the USB AC wall charger. Connect the USB cable to **C**. Plug the wall charger into an electrical outlet.
- 10) CSIP Bridge operation is automatic. After configuration, no user interaction is required.

