Welcome to the Just Add Power configuration suite. Please select one of the options below:

- **Setup a new System**: Select this option to setup a new system and configure all the attached J+P devices.
- **Expand existing System**: Select this option to modify the configuration of an exiting system. This could involve adjusting the switch configuration and/or configuring 1 or more J+P devices.
- **Test System**: Select this option to test an already configured system.
- **Configure a Device**: Select this option to configure a single J+P device connected on the local LAN (or direct from this PC). This enables you to configure a single device for inclusion into the system without having to run through a complete switch configuration.
- **Firmware Update Only**: Select this option to update the firmware on all J+P devices. These can either be attached to a configured switch, or directly on the local network.
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Introduction

JADConfig is a Windows-only software that works with select models of Cisco and Luxul switches to setup VLAN Switching for 2G and 3G Just Add Power HD over IP systems.

VLAN Switching describes an audio/video matrix switching system that uses VLANs in a Managed Ethernet switch to separate video signals. Each port on the switch that has a Transmitter connected to it is configured with a unique VLAN. The VLAN membership of a port with a Receiver connected to it determines the video signal that is going to that Receiver. To perform source-switching, the VLAN membership of the Receiver port on the switch is changed.

JADConfig is capable of performing multiple functions for configuring or servicing a Just Add Power system:

- Setup a New System
- Expand Existing System (future functionality)
- Test System
  - Test Switching
  - Detect Switch Model
  - Test Static Route
  - Read Switch Config
- Configure a Device
- Firmware Update
Download & Install

Newest version of JADConfig and associated drivers are always available at support.justaddpower.com

- Download the setup file
- Install JADConfig
- Windows ONLY program
  - Apple hardware running Windows OS may experience issues. Please use a native Windows PC.
- Program automatically updates when new version is available.
# Supported Switches

<table>
<thead>
<tr>
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<th>Model</th>
<th>Driver Supported</th>
<th>Stackable</th>
<th>POE Ports</th>
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</table>

*Stackable switches can function alone, or in a group to increase system size*
Setup a New System

Part 1 – Physical Connections
Connect the PC and the switch

1. If no network is involved, select Next without router/network and jump to Step 11.
2. Connect the PC to the network.
3. Connect the network to port 1 of the switch.
4. Connect the PC to the console port of the switch.
5. Select Next with router/network.

6. Select the Network adapter.
7. Select the COM port.
8. Select the switch Manufacturer.
9. The Switch username and Switch password will auto-fill. If the values are different than default, enter the current username and password.
10. Select Next and jump to Part 2.
11. Connect the PC wired network to port 1 of the switch.
12. Connect the PC to the console port of the switch.
13. Choose the Network adapter connected to the switch.
14. Enter the Switch network address. This is the IP assigned to the switch.
15. Enter the Network subnet mask to match the network the switch will be installed in, or to match the control system.
16. Enter the Network default gateway to match the network the switch will be installed in, or to match the control system.
17. Select Next.
18. Select the COM port.
19. Select the switch Manufacturer.
20. The Switch username and Switch password will auto-fill. If the values are different than default, enter the current username and password.
21. Select Next and move to Part 2.
Part 2 – Stack Setup

Only for stackable switches. If the switch is not stackable, jump to Part 3.

Stacking cables between the switches should **NOT** be connected until told to do so by the software.

1. If there is only 1 stackable switch, select **Single Switch** and jump to **Part 3**.
2. If there are multiple stackable switches, select **Stacked**.

3. If the switches have not yet been joined together into a single stack, select **Create new stack** and jump to **Step 6**.
4. If the switches have been joined together into a single stack, select **Load existing stack** and jump to **Step 16**.

5. Enable the first switch in the stack – referred to as the Master – by selecting **Add master switch**. Once the Master has been identified it cannot be changed. All other switches can be reorganized later in the process.
6. Confirm that the console cable is connected to the switch that will be the Master.
7. Select **Ok**.

8. The program will interrogate the switch and get its current settings.
9. Confirm the settings and select **Configure switch for stack**.

10. The program will configure the switch as the Master and return to the Create stack page.
11. To expand the stack, select **Add a switch**.
12. Move the console connection to the switch that will be added.
13. Select Ok.

14. The program will interrogate the switch and get its current settings.
15. Confirm the settings and select Configure switch for stack.

16. To add additional switches, select Add a switch and repeat steps 13-16.
17. To finish adding switches and proceed with the current switches, select Finished.
18. Connect the stacking cables between the switches.
19. When all stacking cables are connected, select **Ready**.

20. A timer will start to allow the switches to configure the stack connection. Let the timer run to completion.

21. **DO NOT** select **Skip** unless the stack has already negotiated.

22. Once the timer has completed, select **Next**
23. The order of the switches in the stack is displayed.
24. If the order needs to be changed, select the two Stack Numbers that should be swapped.
25. Select Swap switches to change the order.

26. Once the switches are in the correct order, select Next to finish stack setup and move to Part 3.
Part 3 – System Details & Switch Configuration

Enter the size of the system and IP addresses for the switch and Just Add Power devices.

1. Enter the number of Transmitters. If using a stacked system, this can be done for each switch in the stack.
2. Enter the number of Receivers. If using a stacked system, this can be done for each switch in the stack.
3. Enter the Default transmitter. This is the Transmitter that will show on all Receivers after setup is complete.
4. Enter the Switch IP address. This is the IP that the control system will use to switch sources. If no router/network was chosen, this value was entered in Part 1.
5. Select the J+P LAN. This will decide the IP addresses for the Just Add Power devices.
6. For Advanced options, jump to Step 10.

7. Once all details have been entered, select Next.

8. The program will check that the Switch IP address is available. Once it is confirmed available, all fields will fade for confirmation.
9. Select Next to configure the switch and jump to Part 4.
10. If custom IP ranges are needed, select the **Advanced** checkbox.
11. Select **Go to advanced**.

12. Select the **J+P LAN** or set to **Manual** to customize.
13. Enter the identity of the **J+P network**.
14. Enter the subnet in the **J+P netmask**.
15. Select the **Unused port mode**.
   a. **Control VLAN** sets unused ports into VLAN 1.
   b. **User Defined** will leave unused ports alone.
16. Enter the IP of the router in the system as the **Default gateway**.
17. Select **Next** to configure the switch and move to **Part 4**.
Part 4 – Connect & Configure Devices
Connect Just Add Power devices to the switch so the program can identify them.

1. Connect Transmitters to pink ports. Ports may be left vacant.
2. Connect Receivers to green ports. Ports may be left vacant.
3. Yellow ports are for data network devices. Do not connect Transmitters and Receivers to those ports. During setup, it is recommended that nothing be attached to yellow ports except the network to port 1.
4. Select Next.

5. Confirm that HMIs are disconnected from all Transmitters. If a Tiling Transmitter is present, press and hold the PF1 button until the data light on the Transmitter is blinking.
6. Check I have disconnected all HDMI cables.
7. Select Next to begin device discovery.

8. Please be patient as the program discovers all Just Add Power devices connected to the switch.
9. A list of the discovered devices and their current details:
   a. Current firmware
   b. Current IP address
   c. Current netmask
   d. Current default gateway
   e. TX/RX
   f. Model

10. Ports with no devices detected will have blank row entries.
11. Select Display patching diagram to view the port connections on the switch.

12. The patching diagram shows how devices are connected to the switch.
13. If a device is connected to a port with No device found, check that the unit is behaving properly.
14. A properly functioning unit will have a solid Power light and a blinking Data light.

15. If not all devices were properly discovered, there are two rescan options:
   a. Select Rescan and append to remember current connections and only look for new connections.
   b. Select Clear and rescan to forget all connections and rediscover all ports.

16. Once all devices are discovered, select Next.
17. **Select firmware** for the system. Newest firmware is always recommended.
18. To change the background image on the Receivers:
   a. Check **Enable background image upload**
   b. **Select background image** and navigate to a .jpg image file that is **1MB** or smaller. The image will be displayed at **640x480**.
19. **DO NOT** **Force firmware update** unless specifically told by technical support personnel.
20. Select **Next**.

21. If the system has 2GΩ/3G devices present, choose the **Mode**:
   a. **2G mode** makes 2GΩ/3G and 3G devices compatible with 2G devices
   b. **3G mode** makes 2GΩ/3G and 3G devices compatible with other 2GΩ/3G and 3G devices
   c. **Do not set** does not alter the mode setting on devices. **This is the recommended setting**.
22. Select **Next**.

23. Device settings will be applied and firmware will be updated to the selected version. Please be patient, as this process will take several minutes. Move to **Part 5**.
1. When configuration and firmware update are finished, a list of the configured devices is displayed.

2. Select Next.

3. Input Company Details:
   a. **Programmer Name** - mandatory
   b. **Email** - mandatory
   c. **Telephone** - mandatory
   d. **Company Name** - mandatory
   e. **Address**
   f. **Notes**

4. Select Next.

5. Choose a location to save the JADConfig Report File

6. Name the **Report File**. The default name is the date and time that the program was run.

7. Select **Save**.
8. The JADConfig Report File lists all information about the system:
   a. Switch Model
   b. Switch IP
   c. Number of Transmitters & Receivers
   d. Static Route Information
   e. Device Information

9. The program has finished. Select Finish to return to the main menu.
Test System

Tests the functionality of a system that has already been configured with JADConfig.

Test System has 4 functions:

1. Test Switching
2. Detect Switch Model
3. Test Static Route
4. Read Switch Config
Test Switching

1. Select Test switching.

2. Select the Network adapter. Prefer wired connection.

3. Enter the Switch network address. This must be a unique IP on the network.

4. Select the switch Manufacturer.

5. The Switch username and Switch password will auto-fill. If the values are different than default, enter the current username and password.

6. Select Next.

7. The program will interrogate the switch and display a switching matrix.

8. Select the TX # button to switch all displays to the same source.

9. Select a radio button to set a Receiver to watch a specific Transmitter.

10. Select Finish when done.
1. Select **Detect switch model**.

2. Connect the PC to the switch with a serial (console) cable.
3. Select the **COM port** for the serial cable.
4. Select the switch **Manufacturer**.
5. The **Switch username** and **Switch password** will auto-fill. If the values are different than default, enter the current username and password.
6. Select **Next**.

7. Allow the program to interrogate the switch.
8. When finished, the model number will show in a popup.
9. Select **OK** to close the popup.
10. Select **Back** to return to the Test submenu.
1. Select **Test static route**.

2. Select the **Network adapter**.
3. Enter the **Switch network address**.
4. Select the switch **Manufacturer**.
5. The **Switch username** and **Switch password** will auto-fill. If the values are different than default, enter the current username and password.
6. Select **Next**.

7. Allow the program to interrogate the switch for device information and attempt to contact active Just Add Power devices.
8. The result of the test is displayed.

9. If the Static Route is properly configured, all active devices will be identified and have Success marked.

10. If the Static Route is not properly configured or there are other network settings that are preventing access, no devices will have Success marked. Text at the bottom will give suggestions as to why the devices were unreachable.

11. The information for the Static Route can be found on the Report File. If the Report File is unavailable, use the Read Switch Config function to generate a new one.

12. Select Finish when done.
Read Switch Config

1. Select Read switch config.

2. Select the Network adapter.
3. Enter the Switch network address.
4. Select the switch Manufacturer.
5. The Switch username and Switch password will auto-fill. If the values are different than default, enter the current username and password.
6. Select Next.

7. Input Company Details:
   a. Programmer Name* - mandatory
   b. Email* - mandatory
   c. Telephone* - mandatory
   d. Company Name* - mandatory
   e. Address
   f. Notes

8. Select Next.
9. Choose a location to save the JADConfig Report File.
10. Name the Report File. The default name is the date and time that the program was run.
11. Select Save.

12. Select Finish to return to the main menu.
Configure a Device

1. Connect the PC running JADConfig and the Just Add Power devices to **data network** ports. These can be data ports on the JADConfig switch or a standard data port on another switch in the network. The discovery process looks for **local network devices** only.

2. Select the **Network adapter**. Wired network adapter recommended.
3. Select **Next**.

4. The program will search for Just Add Power devices on the **local network**. Discovered devices are interrogated for their current settings.
5. If the device was not discovered, select Rescan.
6. Select the device to be configured.
7. Select Next.

8. Select the J+P Lan.
9. Set the Tx / Rx number.
10. Select Next and jump to Step 16.

11. If the device IP needs a manual setting, select the Manual tab and go to Step 12.

12. Enter the Address.
13. Enter the Netmask.
14. Enter the Gateway.
15. Select Next.
16. **Select firmware** to be loaded. Options are the latest firmware versions plus:
   a. Do Not Update – config only
   b. User Selected – choose a firmware file

17. To change the background image, check **Enable background image upload** and **Select background image**.

18. Do **NOT** check **Force firmware update** unless specifically told to do so by **Technical Support**.

19. Select **Next**.

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20. If the device being configured is a 2GΩ/3G or 3G unit, select the **Mode** for the device.
   a. A unit in **2G Mode** can communicate with 2G devices and other units in 2G Mode.
   b. A unit in **3G Mode** can communicate with other units in 3G Mode.

21. Select **Next** to begin configuration.

---

22. After the device is configured, the results are displayed.

23. Select **Configure another device** to return to **Step 6**.

24. Select **Finish** to return to the **Main Menu**.
Firmware Update Only

Firmware Update Only will update all Just Add Power devices simultaneously. There are two methods:

1. **JADConfig Option #1** – Update firmware on all Just Add Power devices in a configured system, but a static route **DOES NOT EXIST**. This method requires a serial connection from the PC to the switch and a wired network connection from the PC to switch port 1.

2. **JADConfig Option #2** – Update firmware on all Just Add Power devices in a configured system where a static route **EXISTS**. This option requires a wired network connection to the same network as the Just Add Power system.

3. **Standalone** – Update firmware on all Just Add Power devices present on the local network and **NOT** part of a JADConfig system. This method requires a wired network connection from the PC to the same network that the Just Add Power devices are on.
1. To use **Firmware Update: JADConfig Option #1** the switch must have been previously configured with JADConfig. Just Add Power devices attached to Transmitter and Receiver ports will be updated.

2. Connect the PC to the console port of the switch.
3. Connect the PC to port 1 of the switch, either through a network or directly from the PC to port 1.

4. Select **JADConfig Option #1**

   - **JAD Config Option #1**: Select this option to firmware update J-P devices connected to a switch that has been configured using JADConfig, and for which no static route exists in your router. Note selecting this option will require you to remove any HDMI cables connected to your transmitters.
   - **JAD Config Option #2**: Select this option to firmware update J-P devices connected to a switch that has been configured using JADConfig, and for which a static route exists in your router. Note selecting this option will NOT require you to remove any HDMI cables connected to your transmitters.
   - **Standalone**: Select this option to firmware update one or more standalone devices that are connected to the local LAN.
5. Disconnect HDMI cables from all Transmitters. If there is a Tiling Transmitter, press and hold PF1 until the data light on the TX board blinks.

6. Check the box for I have disconnected all HDMI cables.

7. Select Next.

8. Select the Network adapter.

9. Select the COM port.

10. Select the switch Manufacturer.

11. The Switch username and Switch password will auto-fill. If the values are different than default, enter the current username and password.

12. Select Next.

13. The program will interrogate the switch and discover all active Just Add Power devices. Please be patient.
14. A list of the discovered devices and their current details is displayed.

15. (optional) Select Display patching diagram to view the port connections on the switch.

16. If not all devices were properly discovered, there are two rescan options:
   a. Select Rescan and append to remember current connections and only look for new connections.
   b. Select Clear and rescan to forget all connections and rediscover all ports.

17. Once all devices are discovered, select Next.

18. Select firmware to be loaded.

19. To change the background image, check Enable background image upload and Select background image.

20. Do NOT check Force firmware update unless specifically told to do so by Technical Support.

21. Select Next.

22. Firmware will be updated to the selected version. Please be patient, as this process will take several minutes.
23. When configuration and firmware update are finished, a list of the devices is displayed.
24. Select Next.

25. Input Company Details:
   a. Programmer Name* - mandatory
   b. Email* - mandatory
   c. Telephone* - mandatory
   d. Company Name* - mandatory
   e. Address
   f. Notes
26. Select Next.

27. Choose a location to save the JADConfig Report File
28. Name the Report File. The default name is the date and time that the program was run.
29. Select Save.
30. Select **Finish** to return to the main menu.
1. To use **Firmware Update: JADConfig Option #2** the switch must have been previously configured with JADConfig. Just Add Power devices attached to Transmitter and Receiver ports will be updated.

2. Connect the PC to port 1 of the switch, either through a network or directly from the PC to port 1.

3. Select **JADConfig Option #2**
4. Disconnect HDMI cables from all Transmitters. If there is a Tiling Transmitter, press and hold PF1 until the data light on the TX board blinks.
5. Check the box for I have disconnected all HDMI cables.
6. Select Next.

7. Select the Network adapter.
8. Select the COM port.
9. Select the switch Manufacturer.
10. The Switch username and Switch password will auto-fill. If the values are different than default, enter the current username and password.
11. Select Next.

12. The program will interrogate the switch and discover all active Just Add Power devices. Please be patient.
13. A list of the discovered devices and their current details is displayed.

14. (optional) Select Display patching diagram to view the port connections on the switch.

15. If not all devices were properly discovered, there are two rescan options:
   a. Select Rescan and append to remember current connections and only look for new connections.
   b. Select Clear and rescan to forget all connections and rediscover all ports.

16. Once all devices are discovered, select Next.

17. Select firmware to be loaded.

18. To change the background image, check Enable background image upload and Select background image.

19. Do NOT check Force firmware update unless specifically told to do so by Technical Support.

20. Select Next.

21. Firmware will be updated to the selected version. Please be patient, as this process will take several minutes.
22. When configuration and firmware update are finished, a list of the devices is displayed.

23. Select Next.

24. Input Company Details:
   a. Programmer Name* - mandatory
   b. Email* - mandatory
   c. Telephone* - mandatory
   d. Company Name* - mandatory
   e. Address
   f. Notes

25. Select Next.

26. Choose a location to save the JADConfig Report File.

27. Name the Report File. The default name is the date and time that the program was run.

28. Select Save.
29. Select **Finish** to return to the main menu.
1. Connect the PC running JADConfig and the Just Add Power devices to **data network** ports. These can be data ports on the JADConfig switch or a standard data port on another switch in the network. The discovery process looks for **local network devices** only.

2. Select **Standalone**.

3. Select the **Network adapter**. Wired adapter recommended.

4. Select **Next**.
5. The program will search for Just Add Power devices on the local network. Discovered devices are interrogated for their current settings.

6. If not all devices are discovered, choose one of the rescan options:
   a. Rescan and append will remember the found devices and only look for new devices
   b. Clear and rescan will forget all devices before rescanning for all devices

7. When all devices have been discovered, select Next.

8. Select firmware to be loaded.

9. To change the background image, check Enable background image upload and Select background image.

10. Do NOT check Force firmware update unless specifically told to do so by Technical Support.

11. Select Next.
12. The firmware update process will take several minutes. Once firmware update has begun, it must not be interrupted. Please be patient.

13. The results of the firmware update are displayed. Devices at default settings may change IP address after firmware updating.

14. Select **Next**.

15. Input **Company Details**: 
   a. **Programmer Name**
   b. **Email**
   c. **Telephone**
   d. **Company Name**
   e. **Address**
   f. **Notes**

16. Select **Next**.
17. Choose a location to save the **Report File**.
18. Name the **Report File**. The default name is the date and time that the program was run.
19. Select **Save**.

20. Select **Finish** to return to the main menu.