



Troubleshooting the Series 2 and Series 3 Media Player

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Series 2 DMPS: DMP-2K and SV-4K

Series 3 DMPS: CV-HD and CV-UHD

This module provides some troubleshooting steps by symptoms for DMP hardware, PTP operation, and video display problems. It includes information about the RMA process and the DMP diagnostic URL.

This module includes the following topics:

- [Before You Begin Troubleshooting the Series 2 and Series 3, page 61](#)
- [Troubleshooting PTP Operation for the Series 2 and Series 3 Media Player, page 62](#)
- [Troubleshooting Series 2 and Series 3 Hardware Operation, page 63](#)
- [Troubleshooting Series 2 and Series 3 TV and Video Display Problems, page 65](#)

Before You Begin Troubleshooting the Series 2 and Series 3

Before you begin troubleshooting the Series 2 and Series 3, follow the information in these topics:

- [RMA Process for the Series 2 and Series 3, page 61](#)
- [Series 2 and Series 3 Diagnostic URL, page 61](#)

RMA Process for the Series 2 and Series 3

The Return Materials Authorization (RMA) process is covered by the Cisco Solution Support Service for Cisco Vision.

Before you open a Cisco Solution Support case for the Series 2 and Series 3:

1. Locate your symptom in the Series 2 and Series 3 troubleshooting topics and try to isolate the problem by following the suggested troubleshooting steps.
2. If you cannot resolve the problem with any of the recommended troubleshooting steps, open a Cisco Solution Support case to further troubleshoot and coordinate the return process with the vendor.

Series 2 and Series 3 Diagnostic URL

Some of the troubleshooting steps for the Series 2 and Series 3 recommend that you open a browser and navigate directly to the device using the following URL to further diagnose a problem:

`http://dmp-ip-address`

The diagnostic URL requires a password. The password is set in the “defaultDmpAdminPwd” registry key in the **Management Dashboard**. The default username is “admin.”

Reset the password from the default value as a security best practice.

Caution: Do not manually power off the DMP after changing the password. To change the DMP password, use the **Power Cycle DMP switch command from the Management Dashboard to restart the device properly. To use this command, import the switch data first.**

Note: This password is also used for the Diagnostic Web Server (DWS).

Troubleshooting PTP Operation for the Series 2 and Series 3 Media Player

This section identifies some of the symptoms related to problems with PTP operation:

- [Symptom: Local PNGs are not synchronized across Series 2 and Series 3 devices, page 62](#)
- [Symptom: Playlists do not advance to the next content item on the DMP, page 62](#)

Symptom: Local PNGs are not synchronized across Series 2 and Series 3 devices

Troubleshooting steps:

1. Verify the PTP configuration on your Series 2 and Series 3 devices:

From the **Main Menu**, select **Tools > Management Dashboard > Dynamic Signage Director Configuration > System Configuration > Global DMP Settings > Time Source**

2. Verify that the PTP domain and PTP master candidates property configuration is correct for your network.
3. Open your browser and navigate to one of the devices:

http://dmp-ip-address/ptp.html

4. Enter the username and password.
5. Look for the message “PTP is not enabled.”

This message might mean that the device was not rebooted after changes to the Management Dashboard settings.

If the message appears, reboot the DMP device.

Symptom: Playlists do not advance to the next content item on the DMP

If the current PTP master becomes unreachable (shuts down, or becomes unreachable on the network), the PTP members will be unable to update their clocks and this condition will occur.

Troubleshooting steps:

1. Verify the PTP configuration on your DMP devices:

From the **Main Menu**, select **Tools > Management Dashboard > Dynamic Signage Director Configuration > System Configuration > Global DMP Settings > Time Source**

2. Verify that the PTP domain and PTP master candidates property configuration is correct for your network.

3. Open your browser and navigate to one of the devices:
http://dmp-ip-address/ptp.html
4. Enter the username and password.
5. Identify the PTP master by finding the unit that has an “offsetFromMaster” value of 0.0 (Figure 1 on page 63).

Figure 1 Identify the PTP Master

PTP clock status

```

Status from local PTP:
sending: GET_CURRENT_DATA_SET
90ac3f.ffff.03864a-0 seq 0 RESPONSE MANAGEMENT CURRENT_DATA_SET
  stepsRemoved      0
  offsetFromMaster  0.0 ←
  meanPathDelay     0.0

Status from remote PTP devices:
sending: GET_CURRENT_DATA_SET
90ac3f.ffff.038637-1 seq 0 RESPONSE MANAGEMENT CURRENT_DATA_SET
  stepsRemoved      1
  offsetFromMaster  2997.0
  meanPathDelay     15377.0
    
```

6. Ping the master PTP device.
7. If the master is not reachable and you have configured alternate masters, but they are not reported as master after waiting for a minute, reboot one of the reachable PTP master candidates.

Note: Identifying the alternate master for this step is easier if you are explicitly identifying the IP address of alternate masters and not using the “*” wildcard to specify possible election of any DMP device on the network.

8. If a device shows that it has not synchronized, reboot the device to force synchronization.

Troubleshooting Series 2 and Series 3 Hardware Operation

This section identifies some of the symptoms related to problems with the Series 2 and Series 3 media player hardware:

- Symptom: “Please Insert Card” message on SV-4K or DMP-2K startup screen, page 63
- Symptom: Pwr and Eth LEDs are not lit and no signs of activity on the DMP, page 64
- Symptom: DMP Err or Err/Upd LEDs blinking, page 64
- Symptom: Series 2 and Series 3 rebooting automatically after startup, page 64
- Symptom: Series 2 and Series 3 lose storage after startup power loss, page 65

Symptom: “Please Insert Card” message on SV-4K or DMP-2K startup screen

Troubleshooting steps:

1. Verify that an IP address is assigned to the device.
2. Verify proper DHCP Option 43 configuration.
3. Verify proper DHCP Option 60 configuration.

4. Verify that the Cisco Vision Dynamic Signage Director server is running and reachable.
5. Contact Cisco Technical Support to do further troubleshooting and proceed with RMA process.

Symptom: Pwr and Eth LEDs are not lit and no signs of activity on the DMP

Troubleshooting steps:

1. Check for any visible damage to the Ethernet port on the DMP device.

If there is not any visible port damage on the DMP:

2. Connect a 12V 5A power supply to the media player to confirm startup and normal operation.
3. Replace the Ethernet cable.
4. Connect the media player to a known-working switch port for another DMP device.
5. Verify the PoE+ settings on the switch.

Note: If you have imported the switch settings to Cisco Vision Dynamic Signage Director, you can view the PoE+ settings. Go to: **Tools > Management Dashboard > Tools > Settings > Switch Management > View Switch Details**

Power normally displays “29.5” for the Series 2 and Series 3 after LLDP negotiation with the switch.

6. If none of these steps locate the problem, contact Cisco Technical Support to proceed with the RMA process.

Symptom: DMP Err or Err/Upd LEDs blinking

Troubleshooting steps:

1. Refer to the LED documentation.

See [LEDs on the Series 2 Media Players, page 26](#) and [LEDs on the Series 3 Media Players, page 28](#).

2. Troubleshoot according to the description of the problem.

Symptom: Series 2 and Series 3 rebooting automatically after startup

Troubleshooting steps:

1. Verify whether multiple devices are doing an auto-reboot.
2. If multiple devices are automatically rebooting at startup:
 - a. Verify that the devices are obtaining an IP address.
 - b. If the devices are not getting an IP address (“Unable to get IP address” message on the TV display), verify communication to the DHCP server.
 - c. Verify proper DHCP Option 43 configuration.
 - d. Verify proper DHCP Option 60 configuration.

3. If the SV-4K or DMP-2K stays at the loading screen with the progress bar, verify communication with the Cisco Vision Dynamic Signage Director server.
4. (Advanced) Verify that an HTTP request comes in to the /var/log/httpd/access_log (use the System State Report [SSR]).

Look for a message like the following:

```
10.194.169.242 - - [13/Oct/2014:13:10:05 -0700] "GET /StadiumVision/dmp_v4/scripts/boot.brs
HTTP/1.1" 200 89403 "-" "-"
```

Symptom: Series 2 and Series 3 lose storage after startup power loss

Note: If there is power loss or failure, a tripped circuit, or interrupted AC power source between the wall and the AC power brick, the DMP may lose storage. There may be residual charge from the capacitors in the AC power brick that cause the SSD to temporarily fail while circuitry switches over to PoE.

Troubleshooting steps:

1. Disconnect the LAN cable.
2. Disconnect the molex connector from back of DMP.
3. Plug the molex connector back in.
4. Plug the LAN cable back in.

The SSD is OK upon being rebooted. No storage command is necessary.

Also, storage loss does not happen when you configure “power inline never” on the DMP ports or plug the DMP into a switch that does not offer PoE.

Note: Do not supply power to the network port when using AC power.

Troubleshooting Series 2 and Series 3 TV and Video Display Problems

This section identifies some of the symptoms related to problems with the Series 2 and Series 3 displays:

- [Symptom: Black screen on the Series 2 and Series 3 TV display/no multicast video stream, page 65](#)
- [Symptom: No local control when external volume strategy configured, page 66](#)

Symptom: Black screen on the Series 2 and Series 3 TV display/no multicast video stream

Troubleshooting steps:

1. Verify if multiple TV displays are showing a black screen for the same multicast video stream.
2. If multiple TV displays are showing a black screen for the same multicast stream:
 - a. Verify the media player LEDs.
 - b. If the LEDs are in normal state, verify that the Cisco Vision Dynamic Signage Director server has power and is reachable.

- c. If all TV displays are the same and/or new model, test with a different, known-working TV display model.
 - d. (Advanced) Test with laptop connected to the same switch port/interface as the device with a problem, and see if the problematic video stream can be displayed using the open source VLC player.
 - e. Test a different multicast video stream.
 - f. Test with local video content. If local video works, troubleshoot video headend and/or other network problems.
 - g. Confirm video output setting on the DMP using a browser to go to: <http://sv4k-ip-address>.
3. If the problem can be isolated to a DMP device:
- a. Verify that the Pwr/Eth LEDs are on.
 - b. Try a different HDMI cable.
 - c. Test a different TV display.
 - d. (Advanced) Test with laptop connected to the same switch port/interface as the DMP with a problem, and see if the problematic video stream can be displayed using the open source VLC player.

Symptom: No local control when external volume strategy configured

Troubleshooting steps:

1. Verify the RS-232 cable is connected.
2. Verify the serial cable type being used against the RS-232 requirements for the TV display (null modem [crossover] or straight through).
3. Verify that the external output strategy works on other TV displays.
4. Verify the RS-232 codes from the manufacturer against the TV display specifications in Cisco Vision Dynamic Signage Director.