



Pipeline FAQ and Troubleshooting Guide

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Troubleshooting Info

Gather Info

Workflow/System info

Identify the workflow and get system information

Detailed description of the problem:

- What, when, how, where
- Describe the system configuration - Pipeline, network, host computer details, media storage locations (local, network, type of drives, RAID, etc....)
- Include any error messages that are generated
 - Screen shots are great if possible

Pipeline hardware info:

Pipeline Firmware revision

- Locate this information on the **Configure** panel of the **Pipeline Direct** browser UI
 - App
 - Loader

Network topography

- Pipeline IP Address
 - Default, Static or DHCP
- Connected direct or through a switch
 - Full description of the network that the Pipeline is connected to
 - If through a switch, is the route through more than one?
 - If dual NIC cards are present and connected make sure the route to the Pipeline is correct
 - Any managed switches between the Pipeline and the target system?
 - 100Mb/s or 1000Mb/s
 - Is the LAN used for general data traffic as well or dedicated to Pipeline traffic only (recommended)
- Are there Firewall or security obstacles preventing reliable Pipeline communications?

Mac OS X system information (if applicable):

Obtain the OS X host system profile

- Provide a copy of the **Console** log
 - Open the **Console** utility from the **Applications/Utilities** folder
 - If the log list is hidden select **Show Log List**
 - Select **Console Messages** then **File->Save Copy**, save the log and send to support
 - Select **System.log** then **File->Save Copy**, save the log and send to support
- Provide a copy of the **System Profiler** log
 - Launch the **System Profiler**, which is located at: **/Applications/Utilities/System Profiler**
 - Select **Save As...** from the **File** menu.
 - Select **Rich Text Format (RTF)** from the **Format** popup menu.
 - Save the file to the Desktop and send to support

Pipeline software information:

Get the Pipeline for Mac OS X software revisions

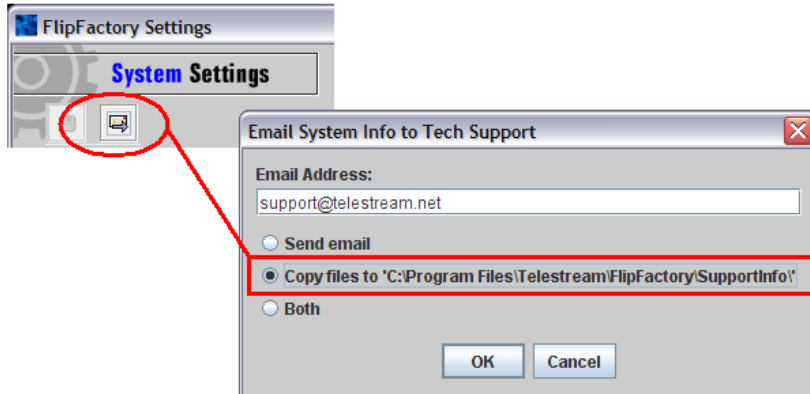
- Pipeline scheduler revision can be found at **Pipeline->About Pipeline**



- Pipeline Porter revision can be found at **Pipeline->About Pipeline Porter**
- Encoding spec
 - What Pipeline(s) codec is being used (**DV, DVCPPro, IMX30/40/50, MPEG-2, ProRes 422**)
 - Which file wrapper is used **QuickTime** or **TIFO**
 - If using the **Pipeline** scheduler send a copy of the schedule file (has a file extension of 'pipelineschedule')

FlipFactory 6.x system information (if applicable):

- ➔ Get information directly from FlipFactory
 - From the FlipFactory main app select **System Settings**
 - Click on the **Email Technical Support** button
 - Choose **“Copy file to.....”**, then click **OK**



- Wait while all of the information is gathered. This can take several minutes.
- When the process is complete, all information needed to debug FlipFactory issues will reside in at

“..\\Program Files\\Telestream\\FlipFactory\\SupportInfo”

General Questions and Issues

Issue. I am evaluating Pipeline with my existing FlipFactory and am have problems getting them to work together.

Resolutions.

- ➔ Pipeline require FlipFactory v6.0 with Service Pack 4
- ➔ Pipeline EDL monitor requires an additional license key. This license key can be obtained from Telestream free of charge. Contact license@telestream.net
- ➔ If your existing FlipFactory license only contains “DEMO” keys some Pipeline workflows will not work and will require “limited” production keys. Workflow that perform DV direct convert, IMX and MXF direct convert, and MPEG-2 direct convert.

Issue. I have a Mac and want to create other formats, such as MPEG-2 4:2:0 long GOP or WMV, from my Pipeline. How can I do this?

Resolutions. To create other types of files from your Pipeline utilize Telestream’s Episode 4.4 craft encoding application. You will need to first create a source file from Pipeline using one of its available codec (DV25, DVCPPro25, IMX(30/40/50) and MPEG-2 50I-Frame), then pass this file to Episode.

Follow these steps:

1. Create a TIFO (Telestream Intermediary Format) source file direct from the *Pipeline Direct* browser UI. (See the ‘**Chapter 3 – Using Pipeline Direct**’ in the Pipeline User Guide for details on how to create TIFO files directly from the *Pipeline Direct* browser UI.)
2. Use the TIFO file as source media in Episode 4.4 to create one (or more) new files using Episode’s wide selection of available media formats.

Issue. I cannot play Pipeline created QuickTime files containing IMX or MPEG-2 on my Mac PowerPC.

Resolutions. The Telestream IMX QuickTime components are compatible with Intel based Mac systems. Telestream does not supply MPEG QuickTime components for PowerPC or Intel Macs.

Issue. What are the general hardware requirements for a Pipeline capture system?

Resolutions. Minimum hardware requirements for a dedicated Pipeline capture system

Network and Hard Disk Performance Requirements (per stream)

CODEC	Disk read/write (MB/s)	Network throughput (Mb/s)
SD Codecs		
Photo Motion JPEG	0.75	8
DV/DVCPPro	4.4	35
IMX30	5.3	43
IMX40	7	56
IMX50	8.3	67
ProRes 422	7.3	58
Uncompressed 8bit 422	22	175



HD Codecs (range based on codec and bit rate)		
DVCPro HD	16.5	135
ProRes 422 HQ	10-36	62-240
DNxHD	10-36	62-240

Recommended Hardware Systems***Standard Definition** (ingest only)****Single channel system**

Intel Dual Core 2.0Ghz CPU, 2GB RAM, SATA 1.5GBs 7200 RPM media storage drive (separate from OS drive)

Two channel system

Intel Dual Core 2.0Ghz CPU, 2GB RAM, minimum 2 drive RAID-0 SATA 1.5GBs 7200 RPM media storage partition (separate from OS drive)

Four channel system

Intel Quad Core (4 cores) 2.33 GHz CPU, 4GB RAM, minimum 3 drive RAID-0 SATA 1.5GBs 7200 RPM media storage partition (separate from OS drive)

Eight channel system

Intel Dual Quad Core (8 cores) 2.33 GHz CPU, 6GB RAM, minimum 4 drive RAID-0 SATA 3GBs 7200 RPM media storage partition (separate from OS drive)

High Definition – DVCPro HD (ingest only)****Single channel system*****

Intel Dual Core 2.53Ghz CPU, 2GB RAM, minimum 2 drive RAID-0 SATA 7200 RPM media storage drive (separate from OS drive)

Two channel system***

Intel Quad Core 2.8 GHz CPU, 6GB RAM, minimum 4 drive RAID-0 SATA 1.5GBs 7200 RPM media storage partition (separate from OS drive)

Three/Four channel system***

Dual Intel Quad Core (8 cores) 2.8 GHz CPU, 6GB RAM, minimum 6 drive RAID-0 SATA 1.5GBs 7200 RPM media storage partition (separate from OS drive)

Five channel system***

Dual Intel Quad Core (8 cores) 3.0 GHz CPU, 8GB RAM, minimum 8 drive RAID-0 SATA 1.5GBs 7200 RPM media storage partition (separate from OS drive)

High Definition - DNxHD 220/Pro Res 422 HQ (ingest only)****Single channel system*****

Intel Dual Core 2.53Ghz CPU, 2GB RAM, minimum 4 drive RAID-0 SATA 7200 RPM media storage drive (separate from OS drive)

Two channel system***

Dual Intel Quad Core (8 cores) 2.8 GHz CPU, 6GB RAM, minimum 6 drive RAID-0 SATA 1.5GBs 7200 RPM media storage partition (separate from OS drive)

Three channel system***

Dual Intel Quad Core (8 cores) 3.0 GHz CPU, 8GB RAM, minimum 8 drive RAID-0 SATA 1.5GBs 7200 RPM media storage partition (separate from OS drive)

**All systems assume media storage local (internal or direct attached) to the host system with adequate storage to support 24 hours of content at the chosen format, and drive array is less than 80% full without serious fragmentation.*

***Edit while ingest and transcode while ingest workflows require increased disk I/O performance to support the additional read processes, and may require disk buffer cache drive system (see Pipeline User Guide disk buffering details).*



***Viewing HD preview stream(s) can consumes high levels of CPU which may cause dropped frames. It is recommended that preview be turned off during capture.

**** To insure quality of service when writing to a NAS, share storage location or network share your Pipeline system must support disk buffering and have it enabled.

Issue. My media goes offline when I navigate away from Final Cut Pro?

Resolutions. When you switch out of FCP and back in, the app scans to see if any of the files have changed "behind its back". Since Pipeline 'Open' QuickTime files are changing as the capture progresses this causes the offline message. Even if automatically reconnect is set, FCP closes the viewer item when reconnecting (because that is what is going on... updating the clip to match the new file) because the clip in the viewer may be going through dramatic changes. You can use the Update Media File apple event, but the viewer will still close. This is normal procedure for Final Cut Pro.

Issue. I am receiving a Video or Audio buffer overflow errors when capturing?

Resolutions. Video buffer overflow errors indicate that real-time media data cannot be written to disk fast enough to prevent the RAM buffer from overflowing. Verify that the disk being written to (either directly without disk buffering or the disk buffering disk) is fast enough to support your workflow. See the Chapter 3 - Typical Pipeline Systems and Considerations section in the Pipeline User Guide).

Issue. I am receiving an Incomplete Frame error when capturing?

Resolutions. Incomplete Frame errors indicate that real-time media stream data coming over the Ethernet connection cannot be consumed by the Pipeline software fast enough to prevent frames from being lost. This is generally caused when the Pipeline host system is overloaded with additional processes such as Pipeline video preview or other CPU intensive tasks or when the network's bandwidth is exceeded. Disable all unnecessary tasks and try the capture again. Also verify that the network connection to the Pipeline(s) is configured in a way to provide adequate bandwidth. See the Chapter 3 - Typical Pipeline Systems and Considerations section in the Pipeline User Guide).

Issue. I am receiving a "Not Implement" error from the Pipeline Control for Windows application?

Resolutions. This is a general error indicating that the combination of Wrapper, Video and Audio you have selected is not compatible with the input signal currently attached to the Pipeline hardware. This error takes into account capabilities of the Pipeline device firmware in respect to the SDI input signal connected to the hardware. For example this error would be generated if the input signal connected is NTSC and your Pipeline Control for Windows application has DV selected as a wrapper and 576i selected (PAL) as the video frame size.

Networking

Issue. How can I find the IP address that my Pipeline is set to?

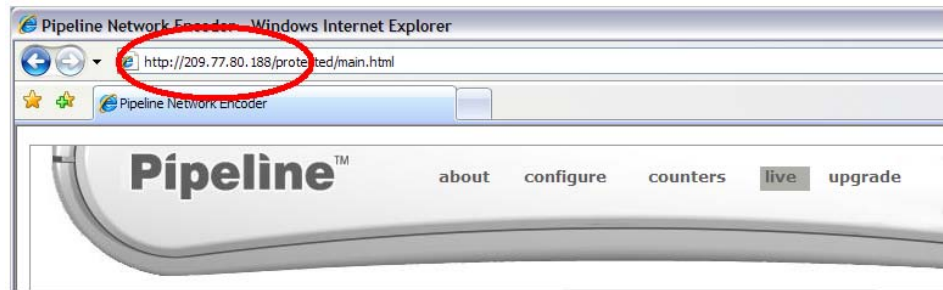
Resolutions.

The default Pipeline IP address, set at the factory, is located on the bottom of your Pipeline device. You can also find the Pipeline MAC address and serial number there.

If you have modified the IP address by selecting Static or DHCP, your address can be found by opening the Pipeline Direct browser interface.

1. Select the Pipeline device from a Bonjour list or by going entering the Pipeline URL (<http://teletstream-plxxxx.local> where **xxxx** is the last 4 digits of the Pipeline serial number) on the browser address box.
2. Where the Pipeline Direct connects to your Pipeline the IP address will appear in the browsers address box.





Issue. I've attached the Pipeline to the LAN via Ethernet, but I can't ping it using the IP address.

Resolutions.

Make sure the Pipeline is on. Plug it in with the supplied power adapter (there is no power switch). On the front panel, verify that the Power LED is lit. Also, verify that the link LED (left LED on Ethernet port) is lit.

Make sure that you're using an operational, straight-through Ethernet cable. If you're using a cross-over cable on a LAN connection (instead of the conventional straight-through cable), make sure your switch is auto sensing.

Make sure your computer is on same LAN & subnet. Determine that your computer is connected to the same LAN and subnet and that you can ping other devices.

Make sure you're pinging the correct IP address. By default, Pipeline uses the IP address printed on the label affixed to the bottom of the device. If you've forgotten the IP address, you can also ping the Pipeline using its host name, in the format *telestream-pl<serial number>.local*, where the serial number is printed on the bottom of the device. For example, *telestream-pl3009.local*.

Is your router/switch VLAN enabled? Routers with VLAN enabled may block link-local traffic. Pipelines by default use a link-local IP address in the range 169.254.1.0 to 169.254.254.255. If your Pipeline is using its default IP address and the router has VLAN enabled, change the IP address (DHCP or static) or disable VLAN and try again.

Eliminate routers from the route. Routers, when used in conjunction with a self-assigned IP address, limit traffic to the local network. Pipeline traffic in this situation will not pass through a router. If you are using DHCP or a static IP address, traffic may pass through a router, although this is not supported because you can't predict associated latencies or out of order packets, both of which cause problems for transmitting media via RTP sessions.

In rare circumstances, Pipeline encounters an IP address conflict and must use another IP address. Make sure you're pinging with the correct IP address. If you suspect this is the case, disconnect the Pipeline and ping the address again to verify that another device is already using the default address assigned to the Pipeline. Resolve the situation by:

- A) changing the second device's IP address so it does not conflict with the Pipeline's default address
- B) Using Bonjour so that you can access and connect to Pipeline without knowing its IP address
- C) Connect the Pipeline directly to a computer and ping it to verify that the IP address printed on the bottom panel is being utilized, and change the settings to use DHCP or a static IP address

Disable or don't use switches with Spanning Tree Enabled. A switch with the spanning tree feature enabled reconfigures itself each time a new device is plugged in. During the reboot cycle, clients will not be able to communicate with the Pipeline (usually for several seconds after it is rebooted). This may



interrupt sessions, destroy a media stream, and could limit your ability to perform a firmware rescue. The work-around is to perform firmware rescue directly connected to the computer.

Verify that the correct IP address is in the routing table. Each Windows computer maintains a routing table so that it knows what gateway is required to contact devices that are not on your subnet. The default link local IP address range is the class B subnet 169.254.0.0. So that the computer knows that it doesn't need to use a gateway to access devices on this subnet you need a 169.254.0.0 route entry in the routing table. This route is typically set by default in Windows XP in the registry. To view the route table and verify that the class B subnet for your Pipeline is in the routing table, open a command window (start > run, enter cmd and press Enter) execute:

```
route -p print
```

If for some reason 169.254.0.0 is not in the routing table, add it back into the table with this DOS command:

```
route -p add 169.254.0.0 mask 255.255.0.0 999.999.999.999
```

where 999.999.999.999 is the IP address of your computer, and retry the ping command.

Issue. My system has more than one network adaptor (NIC) connected.

Resolution.

Make sure that the route table (see above) contains a specific route to the Pipeline device(s) using the correct NIC. This table listing directs all traffic to your Pipeline through the appropriate NIC, thus insuring all communications to the Pipeline(s) always uses the correct network interface.

Route command syntax:

```
route -p ADD [Pipeline IP] MASK [mask IP] [gateway IP] [METRIC metric] [IF interface]
```

Issue. I am using Pipeline Direct – Internet Explorer continues to display a message indicating that it can't communicate with the Pipeline.

Resolution.

You may have changed the IP address, and have not reconnected using the new address. Close the Web browser, and restart it. Next, log on using either Bonjour or the Pipeline's new IP address.

Issue. I can ping the Pipeline and/or see the Pipeline in Bonjour panels, but I still can't connect using my Web browser or via the Pipeline Plugin for Final Cut Pro.

Resolution. Have your IT administrator check the NAT/firewall settings in the switch (or switches) you're connecting through (at most, you should use a single switch). Pipeline uses TCP and UDP ports 7000/7002 (video), 7004/7006 (audio), 7008/7010 (status), 554 (RTSP), and 80 (http). These ports must not be blocked.

Resolution. Two IP addresses may be set to the same NIC card. When using Pipeline Direct, don't use two IP addresses.

Issue. I am losing packets – lost packets display in the Counter panel.

Resolution. It is possible that the connection speed is 10Mbps. Typical causes include a damaged or extremely long, or poor quality Ethernet cable (Telestream recommends cat-5 or cat-6 cables), some device on an intervening switch or hub running at 10 MB/S and causing all traffic to drop to 10 MB/S, or an older, 10 MB/S switch/hub itself. Correct the problem before continuing.

Issue. FlipFactory Pipeline Control editor intermittently say that the selected Pipeline is 'Already In use' when I know it is not?

Resolution. Windows Firewall can intermittently affect the Bonjour service causing it to report wrong Pipeline states. We recommend that the Windows Firewall be enabled and turned off via the Windows



Security control Panel; if this is not possible then UDP port 5353 must be added as an exception for Bonjour to work reliably.

Issue. FlipFactory Pipeline will occasionally fail a jobs reporting “No frames from Pipeline received” or “Failed due to inactivity time out”.

Resolution. Windows Firewall can intermittently affect the Bonjour service causing it to report wrong Pipeline states. We recommend that the Windows Firewall be enabled and turned off via the Windows Security control Panel; if this is not possible then UDP port 5353 must be added as an exception for Bonjour to work reliably.

Pipeline Direct

Issue. I am having problems running Pipeline Direct in my Web browser. I can't download files during crash record, and similar problems.

Resolution. Make sure that Internet Explorer security settings are set to Low as follows (enable similar functionality in Safari and Firefox so that you run signed Active-X controls and download files (for EDL and TIFO files):

- Add Pipelines to your Trusted Intranet sites. Click Tools > Internet Options. On the Security tab, click Trusted Sites, and add `http://telestream-pl<9999>.local` (where 9999 is the serial number) for each Pipeline.
- Click Custom Level and Select Low.

This setting permits (among other things) the following required functionality, which may be set individually:

- Active-X Controls and plug-ins: Allow previously unused Active-X controls to run without prompting (Enable)
- Downloads: automatic prompting for file downloads (Enable) & File download (Enable)
- Scripting: Scripting of Java applets (Enable)

Issue. When I open the Live panel occasionally the embedded QuickTime player does not start.

Resolution. Simply click the pause then the play button on the unopened player control. This will restart the player.

Issue. I am creating TIFO files with Pipeline Direct in Internet Explorer and cannot make any files larger than 4GB.

Resolution. This is a limitation of Internet Explorer. All “downloaded” files are restricted to 4GB. Try using Firefox for Windows, which uses a download manager capable for “downloading” files larger than 4GB.

Pipeline schedule software

Issue. *If I delete the scheduled event on the schedule (by highlighting the colored area and pressing the X button or delete) does that delete the media file?”*

Resolution. No. If you delete an event from the schedule, the associated clip file tied to that event will remain in its stored location. More about this below.

Issue. If I rename an event and capture again what happens to the original captured file?



Resolution. When you rename a scheduled event from the event dialog sheet the associated clip file is also renamed. After a rename when the schedule is restarted the existing clip, which was renamed, is then overwritten.

To avoid having captured file overwritten follow these procedures

Stopping a schedule early

Here is the process for ending a scheduled event early:

1. After the schedule document has been stopped delete the current event from the schedule.
2. If you wish to immediately begin recording again using this schedule document, add a new event with a new name to the schedule.
3. Start the schedule by clicking on the record button.

This process will insure that the files that were previously recorded are maintained and that new clip files are created without overwriting the previously recorded material.

If a schedule unexpectedly stops

If a schedule stops unexpectedly due to a Pipeline or network outage, a computer crash, software crash or any other reason, be aware that a schedule restart will overwrite the current schedule event's last captured file. To prevent this from happening you can do one of two things.

1. Follow the procedure from "Stopping a schedule early" above. It is best to do this when an edit session has the existing file open.
2. Rename the clip file at its storage location, then restart the schedule. Do this if no edit session is currently opened to this file.

Issue. When opening a QuickTime file (*that is currently being captured by Pipeline*) for editing from a shared folder location on by Mac OS X system, I only can see video data up to the point in time of when I opened the file. It does not grow as time progresses and I cannot edit it while it is being captured.

Resolution. Due to the nature of file sharing under AFP (Apple File Protocol), QuickTime files being created by Pipeline that are written to a shared folder on Mac OS X need to be shared and connected to using SMB. See the work around procedure below:

- From **System Preferences->File Sharing** select '**Share files and the folder using SMB**' in the **Options** dialog, on all folders that Pipeline will be writing to.
- From the Final Cut Pro edit workstations connect to the shared media folders using SMB. Open **Finder** and select **Go->Connect to Server** from the **Finder** menu. Connect the media folder as **smb://<server name or IP Address>**
- When importing the Pipeline files into Final Cut Pro select them from '**DEVICES**' and not '**SHARED**'

Pipeline hardware

Issue. The Out or In LED on the front is lighted yellow.

Resolution. You're losing either video or audio packets, and your encoded media is not going to be the quality you planned. This is probably due to connecting through a 10/100 switch, or a hub that is not able to handle the traffic. To verify, connect to the Pipeline with Pipeline Direct and click Live. Review the AudioStream, StatusStream, and VideoQueue values to determine if they are higher than zero, indicating



lost data. Also, you may have a damaged or inferior cable introducing noise that corrupts traffic. You should either direct connect to your Windows computer or Macintosh, or go through a Gigabit Ethernet switch, especially if you have multiple Pipelines installed and encoding or decoding media simultaneously.

Issue. The Ethernet port right LED is not lit.

Resolution. This indicates that the port is operating at 10 MB/S, which is not adequate for real time media traffic. Typical causes include a damaged or extremely long, or poor quality Ethernet cable (Telestream recommends cat-5 or cat-6 cables), some device on an intervening switch or hub running at 10 MB/S and causing all traffic to drop to 10 MB/S, or an older, 10 MB/S switch/hub itself. Correct the problem before continuing.

Issue. When a sync reference signal is connected to the Pipeline Quad the output SDI signal quality looks poor?

Resolution. The sync reference signal needs to be a high quality SDI signal. SDI signals reference signals derived from low quality input signals can cause the export signal not to be able to lock securely to the reference clock.

**** The following should only be done with the assistance of Telestream support staff ****

Issue. My Pipeline's LEDs are all blinking green rapidly one after another.

Resolution. Your Pipeline has lost its serial number from non-volatile memory and will have to have it reprogrammed. Contact Pipeline support for instructions of reprogramming a Pipeline serial number.

Re-programming a Pipeline's serial number and resetting system defaults:

Re-program serial number

- ❖ Find the Pipeline's **Serial Number** and **MAC address** located on the bottom label of your Pipeline device.
- ❖ Open a CMD dialog
- ❖ Enter "telnet 169.254.1.1"
- ❖ At the prompt "New serial number:" enter the last four (4) digits of the **Serial Number** located on the bottom of your Pipeline device.
- ❖ At the prompt "Confirm that serial number <your serial number> is to be set into non-volatile (Y):", enter "Y" and press "Enter".
- ❖ At the prompt "Confirm that MAC address generation overrides are to be set (Y/N):", enter "N" and press "Enter".
- ❖ At the prompt "Confirm that NV configuration data should be erased (Y):", enter "N" and press "Enter".
- ❖ Cycle the power to the Pipeline and wait for it to restart (about one [1] minute)
- ❖ ***Reset Pipeline defaults settings (see Below)***

Issue. How can I upgrade or restore the default settings in my Pipeline if I have forgotten its IP Address or it has become unreachable?

Resolution.

Before you reset the Pipeline, you must obtain the MAC address of the Pipeline hardware. It can be found on the bottom of the Pipeline device.

To prepare the computer to use the IP address that you desire the Pipeline hardware to use, a static ARP entry must be added to the computer's ARP table. Follow these instructions:

1. Unplug the Pipeline device.
2. Open a command console on your Windows PC or a Mac.



- Issue the following command to clear the ARP register.

```
arp -d
```

- Issue the following command to link a new IP Address to the Pipeline's MAC address

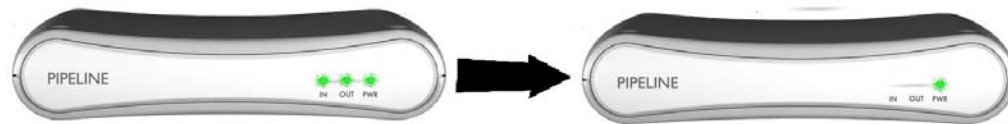
```
arp -s 169.254.1.1 xx-xx-xx-xx-xx-xx (on a Windows PC)
```

- or -

```
arp -s 169.254.1.1 xx:xx:xx:xx:xx:xx (On Mac OS X)
```

where xx-xx-xx-xx-xx-xx is your Pipeline's MAC address.

- Next, prepare to interrupt the Pipeline during its boot cycle. First, enter `http://169.254.1.1` in the URL window of your Web browser, but DO NOT press Enter.
- Now, re-insert the power into the Pipeline. When the Pipeline first powers up you'll see all three LEDs (IN, OUT and PWR) glow green. When IN and OUT go out, press Enter to establish your browser's connection to the Pipeline.



- If the interruption and connection is successful, your browser will display the Pipeline Direct Web Upgrade panel. Proceed to the next step. If not, repeat these steps from step 1.
- The Web Upgrade panel provides three options to choose from:

Upgrade the Firmware

By selecting a new firmware file, the Pipeline firmware can be updated. Normally this firmware file is a new application adding functionality or providing bug fixes. The firmware file can also be a new Application Loader. Note, by upgrading the Application Loader, it is possible to leave the Pipeline in an inoperable state if an upgrade to the Application Loader does not complete properly. Never remove power from a Pipeline while firmware is being loaded.



Reset to the Default Settings

This option allows the Pipeline to be reset to its default settings. If a user has assigned a static IP address to the device and subsequently forgotten it, this option allows the unit to reenter the self-assigned, default, linklocal IP address mode. You can now connect to the device again using the default IP address printed on the bottom of the unit.

Reboot the Pipeline



Once the Pipeline has been interrupted, the only way to operate the Pipeline in its normal mode again is to reboot the device. On reboot, the device will restart, which may be interrupted again or may be allowed to load the Pipeline Direct application.

Issue. I'm trying to fix my Pipeline with but can't TELNET to 169.254.1.1?

Resolution. Clear the ARP registry with an "*arp -d*" command and try again.

Issue. The output LED on channel 4 of my Quad is flashing orange with a period of 1 second.

Resolution. Integral to the quad is a network switch which aggregates the four pipeline channels. If the external network is connected but one of the internal channels is not then the LED will flash. This usually indicated a failure of one of the input channels. You may also see this if you reboot one of the other channels while channel 4 is active. If after rebooting the issue does not clear itself contact Telestream technical support.



Issue. How does my Pipeline know which time code source to use as its primary reference?

Resolution. You can set Pipeline into an Auto select mode or specifically select which time code to use.

In **Auto** mode the Pipeline selects the time code source according to the tables below (**Note:** Auto selection can be overwritten by selected Pipeline software applications)

Auto time code - Pipeline single channel device

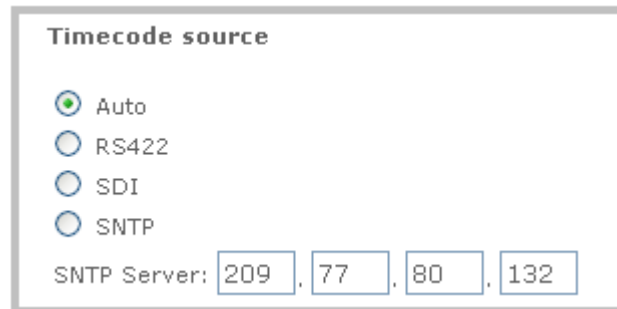
Available Time Code sources			Primary reference
SDI Input time code available	RS422 time code available	SNTP time code available	Time code Reference used by Pipeline
-	✓ Available	-	RS422
✓ Available	Not available	-	Input SDI VBI
Not available	Not available	✓ Available	SNTP Server
Not available	Not available	Not available	Zero based upon connection

Auto time code - Pipeline Quad channel device

Quad option	Available Time Code sources				Primary reference
"Input SDI signal for Timecode" option	SDI Input time code available	RS422 time code available	Ext Sync Ref time code available*	SNTP time code available	Time code Reference used by Pipeline
Checked	✓ Available	-	-	-	Input SDI VBI
Checked	Not available	-	-	✓ Available	SNTP Server
Not Checked	-	✓ Available	-	-	RS422
Not Checked	-	Not available	✓ Available	-	Ext Sync SDI VBI
Not Checked	✓ Available	Not available	Not available	-	Input SDI VBI
Not Checked	Not available	Not available	Not available	✓ Available	SNTP Server
Not Checked	Not available	Not available	Not available	Not available	Zero based upon connection



To specifically select the time code source to use, open the Configure panel on the **Pipeline Direct** browser interface then select the Options tab and select the time code source you wish to use. Select Save Changes to save your selection.



VTR deck control

Issue. The VTR controls are gray or don't respond.

Resolution. Make sure your VTR is in remote mode. There is usually a physical switch on the front panel for operating in local or remote mode. When using Pipeline Direct, view the status bar directly above the video preview on the Live panel to see if it indicates local or remote. (If there is NO indication, the VTR is off or disconnected.)

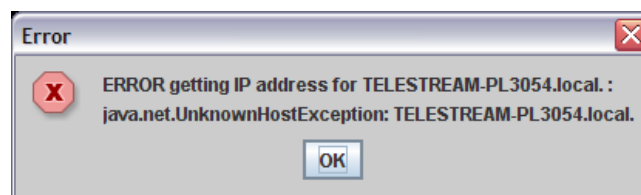
Resolution. Make sure the RS422 cable is connected properly and is not damaged, then try again.

FlipFactory

Issue. In FlipFactory v6.0 I get an error trying to open the Pipeline Control applet from Submit. What should I do?

Resolution. The Pipeline Control applet uses a QuickTime for Java embedded media player. If QuickTime was installed before Java Run Time Environment v1.5 it will not properly install the required components supporting QuickTime for Java. To remedy this simply reinstalled QuickTime.

Issue. Using FlipFactory v6.0 I get an internal error trying to choose a Pipeline device from the **Pipeline EDL monitor** setup or on the **Select** tab of the **Pipeline Capture Editor**. What should I do?



Resolution. FlipFactory v6.0 installs all the necessary components for using Pipeline. One of these components is Apple's Bonjour, a zero-configuration device discovery service that enables FlipFactory to find and display all Pipeline devices currently on your network. When Bonjour is installed by the FlipFactory installer, it is set in a **disabled** state. In order to enable it go to **Control Panel->Administrative Tools->Services**, right click the **Bonjour Service** and select **Properties** from the context menu. From the **Bonjour Service Properties** dialog select **Automatic** from the **Startup type** drop down menu, and then click **Apply**. Now click on **Start** and then **OK**. The **Bonjour Service** is now started and will start automatically each time the server is restarted.

Resolution. If this error occurs on a system other than the one FlipFactory resides on you'll need to install the Bonjour service. The Bonjour installer can be found on the Pipeline CD, the Pipeline support web page (http://www.telestream.net/support/support_pipeline_ff.htm) or on Apple's web site at <http://www.apple.com/support/downloads/bonjourforwindows.html>.



Issue. Our IT group policies do not allow the Bonjour service to run on our FlipFactory server. Can we use Pipeline without it?

Resolution. Yes. You'll need to add your Pipeline(s) to the system registry to allow FlipFactory to discover and communication to them. This option requires FlipFactory Pipeline update pack (XXXXXX)

Add the following registry key:

HKEY_LOCAL_MACHINE\SOFTWARE\JavaSoft\Prefs\net\telestream\flip\engine\bonjour

Add a string value here for all Pipeline devices and add a comma delimited list e.g.
btpipeline,169.254.12.236

Any non IP addresses listed will need to be resolved on the client and the server by either a hosts file entry **169.254.12.235 btpipeline** or by a DNS server