

AVN420 and Wowza Media Server

[Transport Stream ingest to Flash Output](#)

[Transport Stream ingest to Iphone/Ipod Touch Stream Output](#)

[RTSP Stream ingest to Flash Output](#)

Transport Stream ingest to Flash Output

- 1) Install Latest Wowza Media Server Application on either Windows, Mac, or Linux and configure License
 - a. Currently the Latest Version is Wowza Media Server 2 Advanced Preview 9
 - b. It can be found along with platform instructions here <http://www.wowzamedia.com/advanced.php>
 - c. Retrieve a License from Wowza and follow the included instructions to install the license
- 2) Configure Wowza to support Transport Stream ingest for Browser Flash Plugin playback
 - a. Create a new folder in the application/ folder (in the Wowza Directory) called ts_in
 - b. Create a new folder in the conf/ folder (in the Wowza Directory) called ts_in
 - c. Copy the Application.xml file from the conf/ folder into the conf/ts_in/
 - d. Add the following changes to the Application.xml file in the conf/ts_in/ folder
 - i. Change **Streams/StreamType** to **rtp-live**
<StreamType>rtp-live</StreamType>
 - ii. Add following properties to **Streams/Properties** container (there are several <Properties> containers, be sure to add to correct container):

```
<Property>
<Name>sortPackets</Name>
<Value>>true</Value>
<Type>Boolean</Type>
</Property>
<Property>
<Name>sortBufferSize</Name>
<Value>500</Value>
<Type>Integer</Type>
</Property>
```
- 3) Startup the Wowza Pro Server
- 4) Configure the encoder to send a Transport Stream to the Wowza Pro Server's ip address and a given port number of your choosing (this number is used below as the **[port]** part of the stream name when you play the stream). If the Wowza Pro server is behind a router that uses NAT (network address translation) send it to the

- routers external ip address and be sure to map the UDP port to the correct internal ip address.
- a. For this example we will use port 1234
 - b. Make sure to set the audio encoding to AAC as flash does not yet support MPEG Audio
- 5) To play the stream, double click [**install-dir**]/**examples/LiveVideoStreaming/client/live.html**, set **Server** to **rtmp://[server-ip-address]/ts_in** (where [server-ip-address] is the ip address of the server running Wowza Pro) and **Stream** to **udp://0.0.0.0:[port]** (where [port] is the UDP port to which you sent the MPEG-TS stream) and click the **Play** button.

Transport Stream ingest to Iphone/Ipod Touch Stream Output

- 1) Install Latest Wowza Media Server Application on either Windows, Mac, or Linux and configure License
 - a. Currently the Latest Version is Wowza Media Server 2 Advanced Preview 9
 - b. It can be found along with platform instructions here <http://www.wowzamedia.com/advanced.php>
 - c. Retrieve a License from Wowza and follow the included instructions to install the license
- 2) Configure Wowza to support Transport Stream ingest and HTTP Live Streaming output for Iphone or Ipod Touch
 - d. Create a new folder in the application/ folder (in the Wowza Directory) called ts_to_iphone
 - e. Create a new folder in the conf/ folder (in the Wowza Directory) called ts_to_iphone
 - f. Copy the Application.xml file from the conf/ folder into the conf/ts_to_iphone/
 - g. Add the following changes to the Application.xml file in the conf/ts_to_iphone/ folder
 - i. Change **Streams/StreamType** to **rtp-live**
<StreamType>rtp-live</StreamType>
 - ii. Set the **Streams/LiveStreamPacketizers** to **cupertinostreamingpacketizer**:
<LiveStreamPacketizers>cupertinostreamingpacketizer</LiveStreamPacketizers>
 - iii. Add following properties to **Streams/Properties** container (there are several <Properties> containers, be sure to add to correct container):
<Property>
<Name>sortPackets</Name>

```
<Value>true</Value>
<Type>Boolean</Type>
</Property>
<Property>
<Name>sortBufferSize</Name>
<Value>500</Value>
<Type>Integer</Type>
</Property>
```

- iv. Using a plain text editor create a file named **mpegts.stream** in the **[install-dir]/content** folder that contains a single line with the full UDP URL to the MPEG-TS stream. For example this file might contain a URL like this:
udp://0.0.0.0:1234
- 3) Startup the Wowza Pro Server
- 4) Configure the encoder to send a Transport Stream to the Wowza Pro Server's ip address and a given port number of your choosing (this number is used below as the **[port]** part of the stream name when you play the stream). If the Wowza Pro server is behind a router that uses NAT (network address translation) send it to the routers external ip address and be sure to map the UDP port to the correct internal ip address.
 - a. For this example we will use port 1234
 - b. Set the Video Resolution to 480x480 or lower
 - c. Set the Stream Bitrate to 1Mbps or lower
 - d. Make sure to set the audio encoding to AAC as HTTP Live Streaming does not yet support MPEG Audio
- 5) Log into the WMS Stream Manager Page and start the Mediacaster for your stream
 - a. http://WMS_IP_ADDR:8086/streammanager
 - b. You should see a folder labeled "ts_to_iphone" and a link underneath that says "start receiving stream"
 - c. Click that link and it should open a popup window, in the stream name box type mpegts.stream and then press OK.
 - d. Wait approximately 30 seconds before the Stream will be available
- 6) To play the stream on the **iPhone** or **iPod touch** open the **Safari** browser and create a new bookmark with the following url:
http://WMS_IP_ADDR:1935/ts_to_iphone/mpegts.stream/playlist.m3u8

RTSP Stream ingest to Flash Output