### WIN10 EDITING - NEW DESIGN IDEAS

Summary: The purpose of this document is to understand the mobile app requirements

## 10 Active Sources



**Dumb Streaming Sources** 



PTZ Controlled Streaming Sources



PTZ Controlled Mobile Device



Manual Controlled Mobile Device

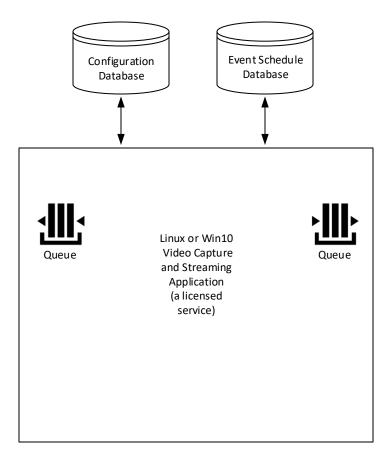


Local Camera Operator



Sensor Data Sources

## **Configuration**



### 10 Active Consumers



Request Video File from Server



Request Video Stream from Server



Push Video to RTMP Streaming Networks

## **Controllers**



Tagging App

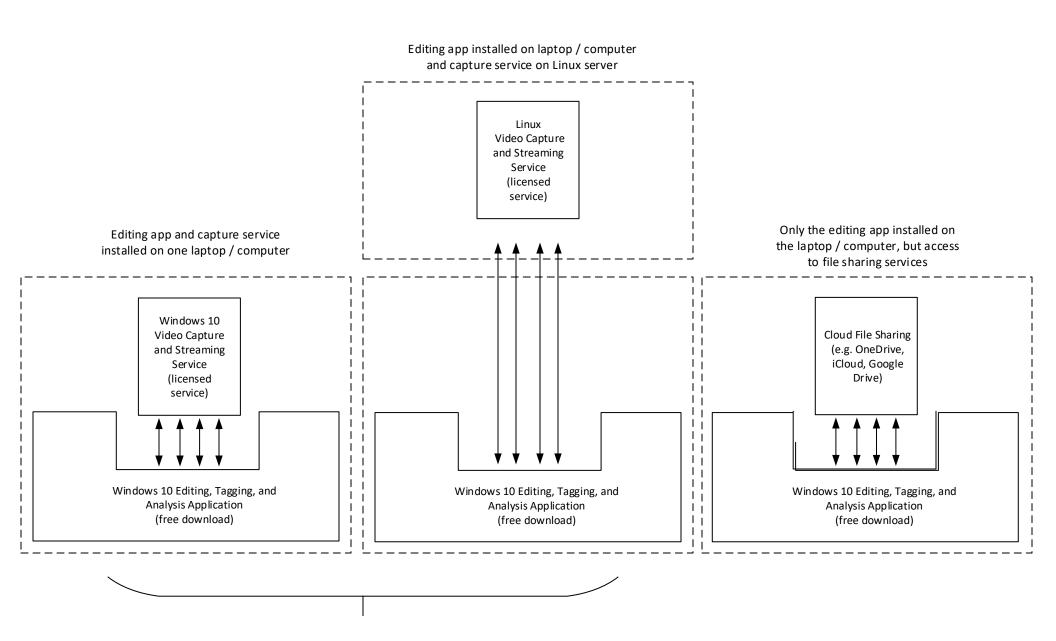


Mobile App



Event Schedule

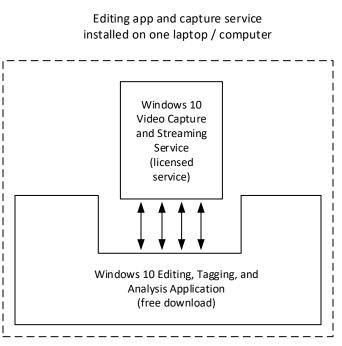
# One app needs to support 3 different configurations

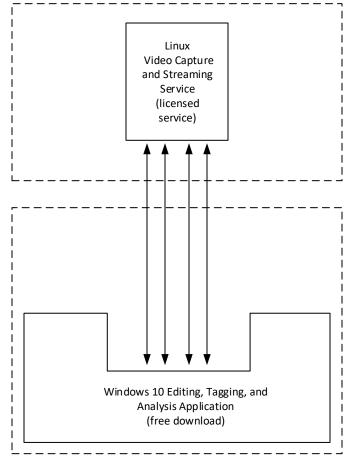


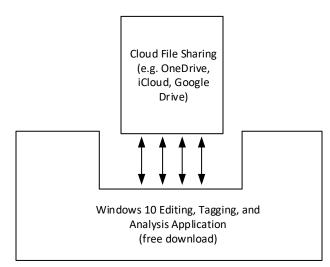
The Win10 editing / tagging app needs to appear the same to the user for either the Win10 service or the Linux backend options. User can support both backend options from one front end app.

## Need a simple way to establish a session with the backend server

## Editing app installed on laptop / computer and capture service on Linux server







Why do it this way?

The Win10 laptop would be used home and away. We need to be able to support both server options. This is one way to do it, there may be others. If so, we should consider them.

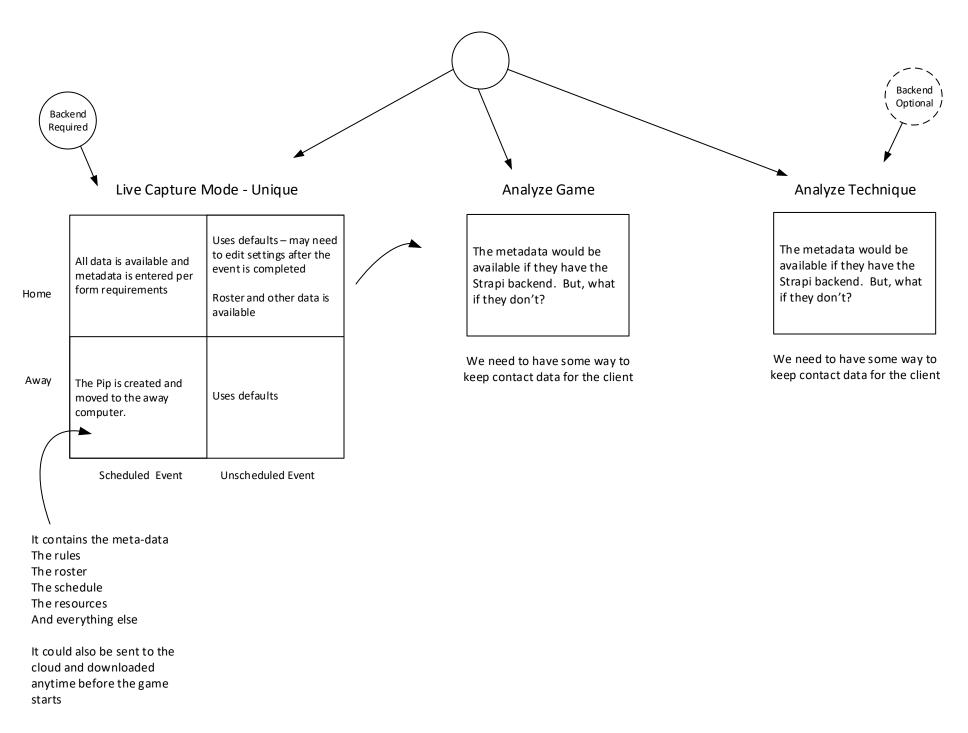
Server Name: Win10 Backend (or Linux Backend)
Address: 127.0.0.1 (or 192.178.1.1)
Session Status: Not Connected

Connect Automatically

Win10 Editing - New Design Ideas

# Connection Options to the Backend Systems

Home We need to be able to connect to the server Media Server If the Win10 service is available If the Win10 service is not If neither server is installed Setup we need to indicate the status available then we need to then we can show some determine if the Linux server is marketing information about and have some visibility into what it is doing. available and try to connect to the benefits of using the server the backend service. and encourage the user to download and purchase one of those two options.





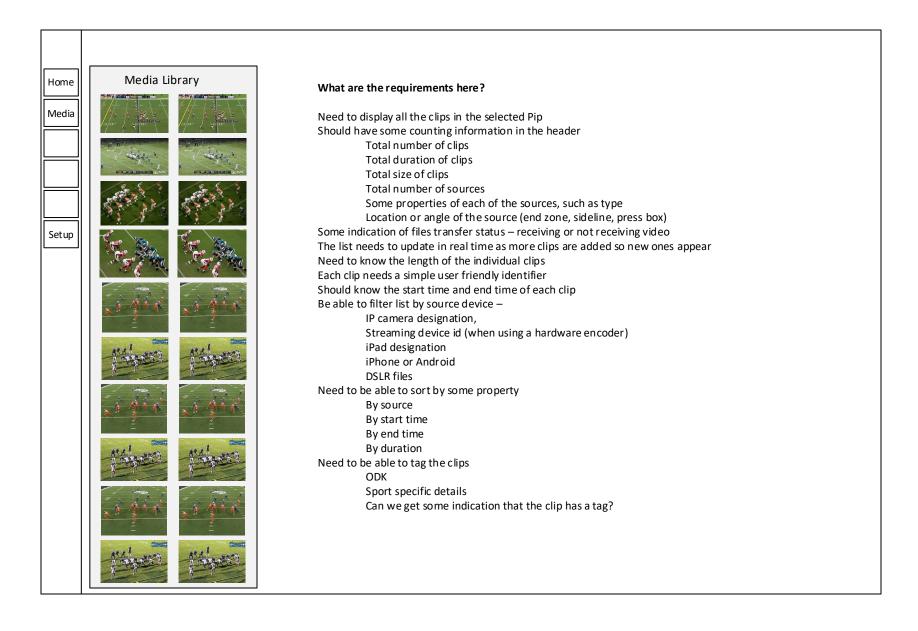
Need to know where the Pip is. Local or remote.

How does this vary depending on Event or Instruction?



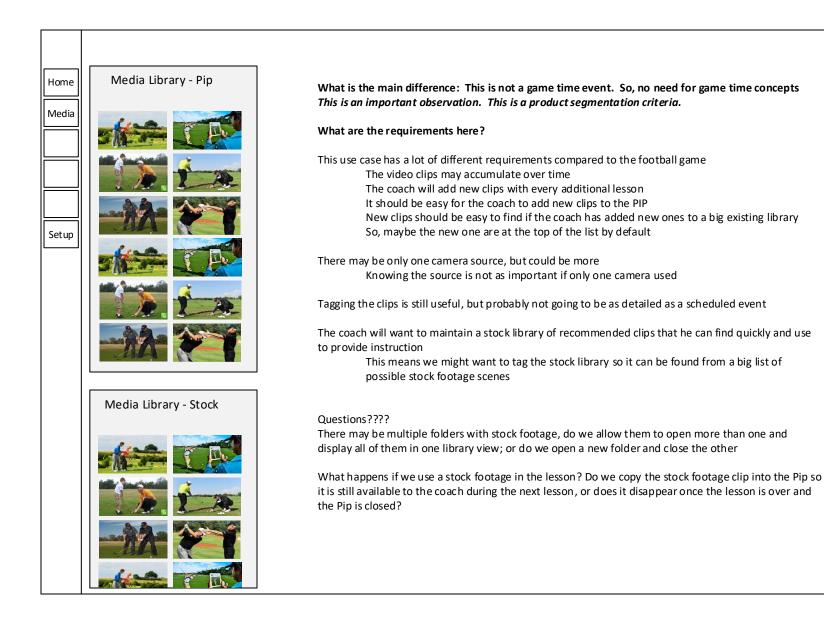
The Pip will probably have many more video clips that the original app supported. We will need to be able to work with this many efficiently Win10 Editing - New Design Ideas

### Media Library – During a Scheduled Event



What is the required footage is not in a Pip, need to navigate in an explorer

# Media Library – During a Lesson (We should probably write up detailed use cases for this scenario)

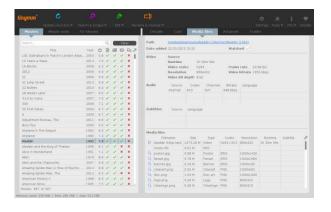


### Sample Media Libraries Interface

https://www.tinymediamanager.org/screenshots/

https://www.plex.tv/your-media/movies-tv/

https://emby.media/







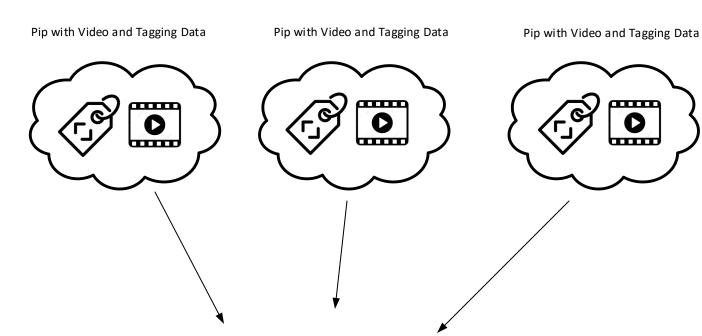






This is the format I was considering, but the two at the right are probably more popular with the average consumer who likes the simplicity of the Netflix style UI





Show all

"video clips"

Where teams are =

"TeamA" vs "TeamB" "2019"

And year = And sport =

"Football"

And play-type =

"Pass"

And player =

"Smith"

And result =

"Complete"

And gain is > than

"20" yards

Search Result =

4 plays







The coach will need to be able to aggregate the metadata and tagging data from more than one Pip

Dartfish has a good example of this!



#### **Tagging**

#### Different sports need different tagging data

The interactivity depends on the sport. Some generate a lot of data, others very little.

#### Tagging during the game

Things happen pretty fast in real time User can just enter summary data per play Or can try to add details if they are fast. This will depend on how much detail or levels the coach wants to collect.

Can have more than one person tagging.

### Tagging after the game

Now they have as much time as needed to add all the details they want.

Can still have more than one person tagging The second person may be interested in different details.

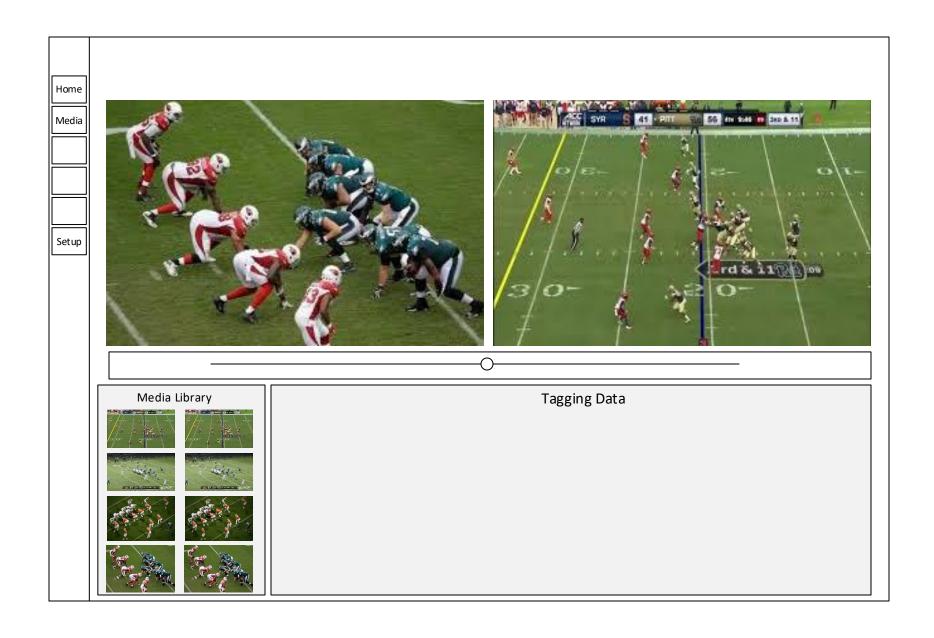
#### More than one type of tagging file

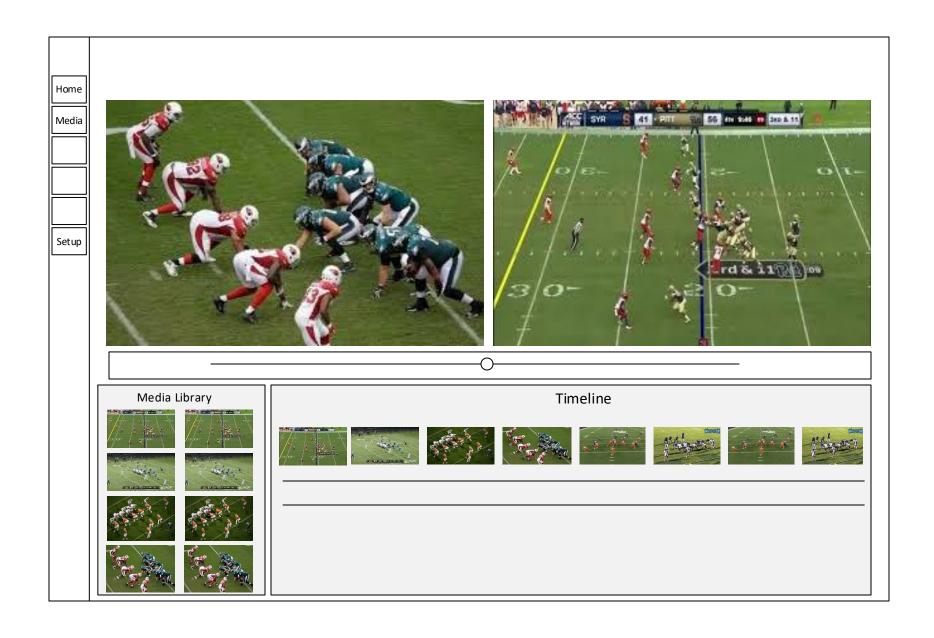
The first example would be tagging plays, but we could also use the tagging file to record instruction, macros and narration like the golf instruction videos we watched.

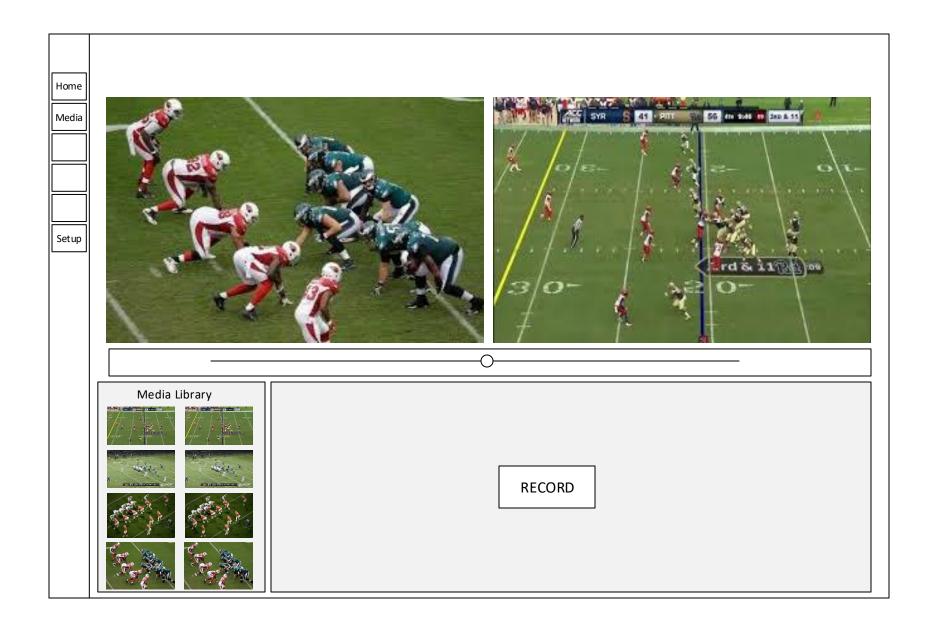
#### More than one tagging file

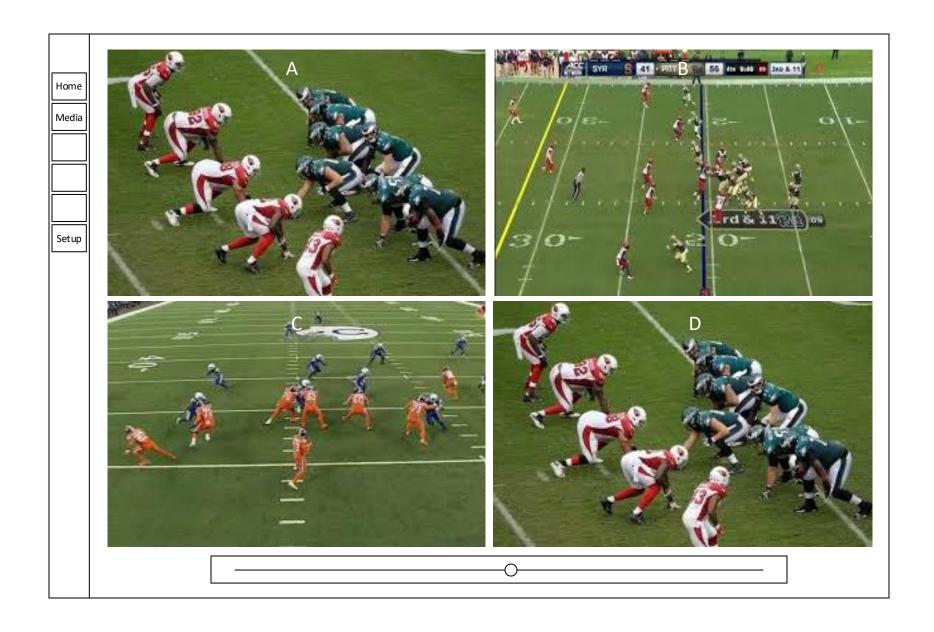
There may be a reason to have two or more tagging files. One might be for offensive plays and the other for defensive.

Or one may be the team statistics and the other may be a lot of small details used to identify and improve techniques.









#### Input Devices - Session Status Recording (want to support up to 8 capture devices at minimum)

#	User	Location	Device ID	Device Type	Network SSID	Quality	IP Address	Transmit Status
1	Steve	Press Box	A15_9876	iPhone	Penfield-2.4G	Good	192.168.1.2	Sending
2	Dave	Sideline	B12_7654	Android	Penfield-2.4G	Good	192.168.1.3	Sending
3	Ira	N End Zone	Cam1	Camcorder	Penfield-2.4G	Good	192.168.1.4	Streaming
4	Ajay	S End Zone	Hanwha_1	IP Camera	Penfield-2.4G	Poor	192.168.1.5	Lost session
5	Alan	Stands	HikVision_2	IP Camera	Penfield-2.4G	Good	192.168.1.6	Waiting
6								
7					·			
8								·

This indicates device priority when resources are constrained

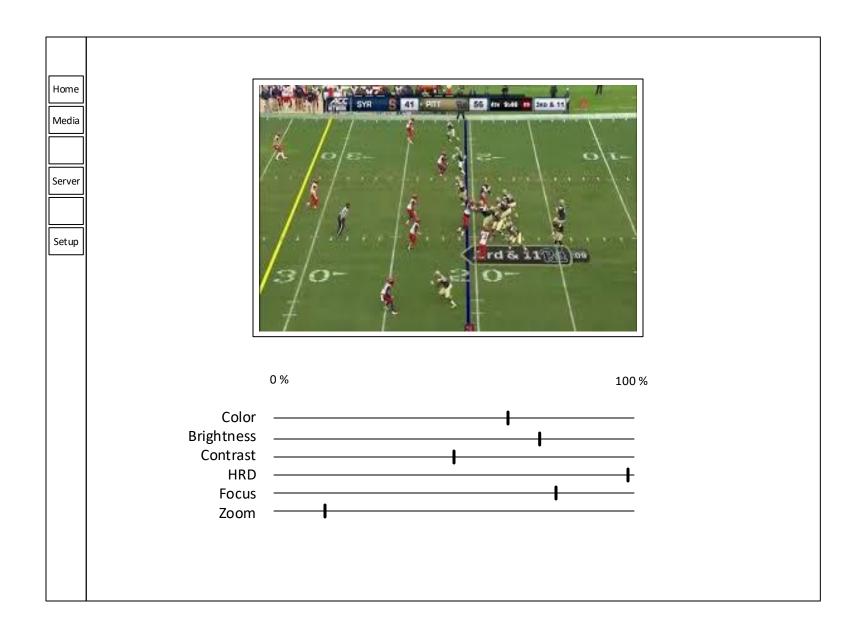
Need some type of monitoring to detect issues; cpu throughput; distance from wi-fi; congestion; too many devices; # sessions that can be supported?

Trends over time?

#### Output Devices - Session Status Playback (want to support up to 10 playback devices at minimum)

#	User	Location	Device	Device	Network	Quality	IP Address	Transmit	Received	Retries
			ID	Type				Status		
1	Coach Smith	Press Box	iPad15	iPad	Penfield-5.0G	Poor	192.168.1.10	Receiving	22 files	2
2	Coach Jones	Sideline	iPad22	iPad	Penfield-5.0G	Good	192.168.1.11	Receiving	22 files	-
3	Coach Mills	Sideline	iPad03	iPad	Penfield-5.0G	Good	192.168.1.12	Receiving	22 files	-
4	Coach Choi	Sideline	iPad09	iPad	Penfield-5.0G	Poor	192.168.1.13	Not available	-	5
5	Coach Velez	Sideline	HP15	Laptop	Penfield-5.0G	Good	192.168.1.14	Receiving	22 files	-
6	Coach Jose	Press Box	Dell13	Laptop	Penfield-5.0G	-	192.168.1.15	No session	-	-
7										
8										
9										
10					-					

How much ability do we have to place devices on different channels



## Streaming Page

Home Media	Network ID	RTMP Streaming Connection	
Stream	Connection String		
Setup		Connect	