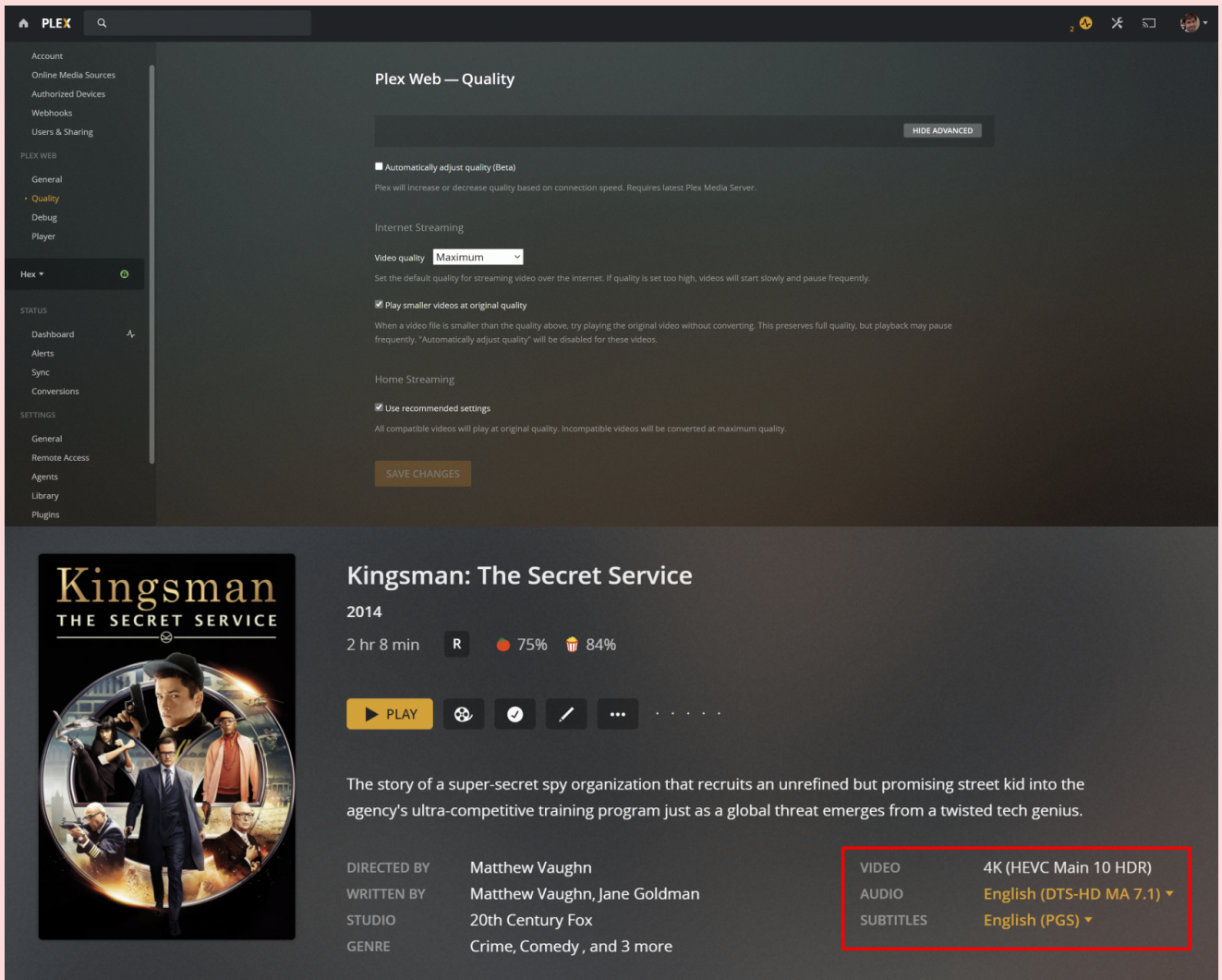


Improve Video Streaming on Plex



The screenshot shows the Plex Web interface. The top section is the 'Plex Web — Quality' settings page. It features a 'HIDE ADVANCED' button and a checkbox for 'Automatically adjust quality (Beta)'. Below this, there are sections for 'Internet Streaming' and 'Home Streaming'. The 'Internet Streaming' section has a 'Video quality' dropdown set to 'Maximum' and a checkbox for 'Play smaller videos at original quality'. The 'Home Streaming' section has a checkbox for 'Use recommended settings'. A 'SAVE CHANGES' button is at the bottom of the settings page.

The bottom section shows the movie page for 'Kingsman: The Secret Service'. It includes a movie poster, the title, year (2014), runtime (2 hr 8 min), rating (R), and user ratings (75% and 84%). There is a 'PLAY' button and several icons for video controls. Below the movie title is a description: 'The story of a super-secret spy organization that recruits an unrefined but promising street kid into the agency's ultra-competitive training program just as a global threat emerges from a twisted tech genius.' At the bottom, there are fields for 'DIRECTED BY' (Matthew Vaughn), 'WRITTEN BY' (Matthew Vaughn, Jane Goldman), 'STUDIO' (20th Century Fox), and 'GENRE' (Crime, Comedy, and 3 more). A red box highlights the video and audio settings: 'VIDEO 4K (HEVC Main 10 HDR)', 'AUDIO English (DTS-HD MA 7.1)', and 'SUBTITLES English (PGS)'.

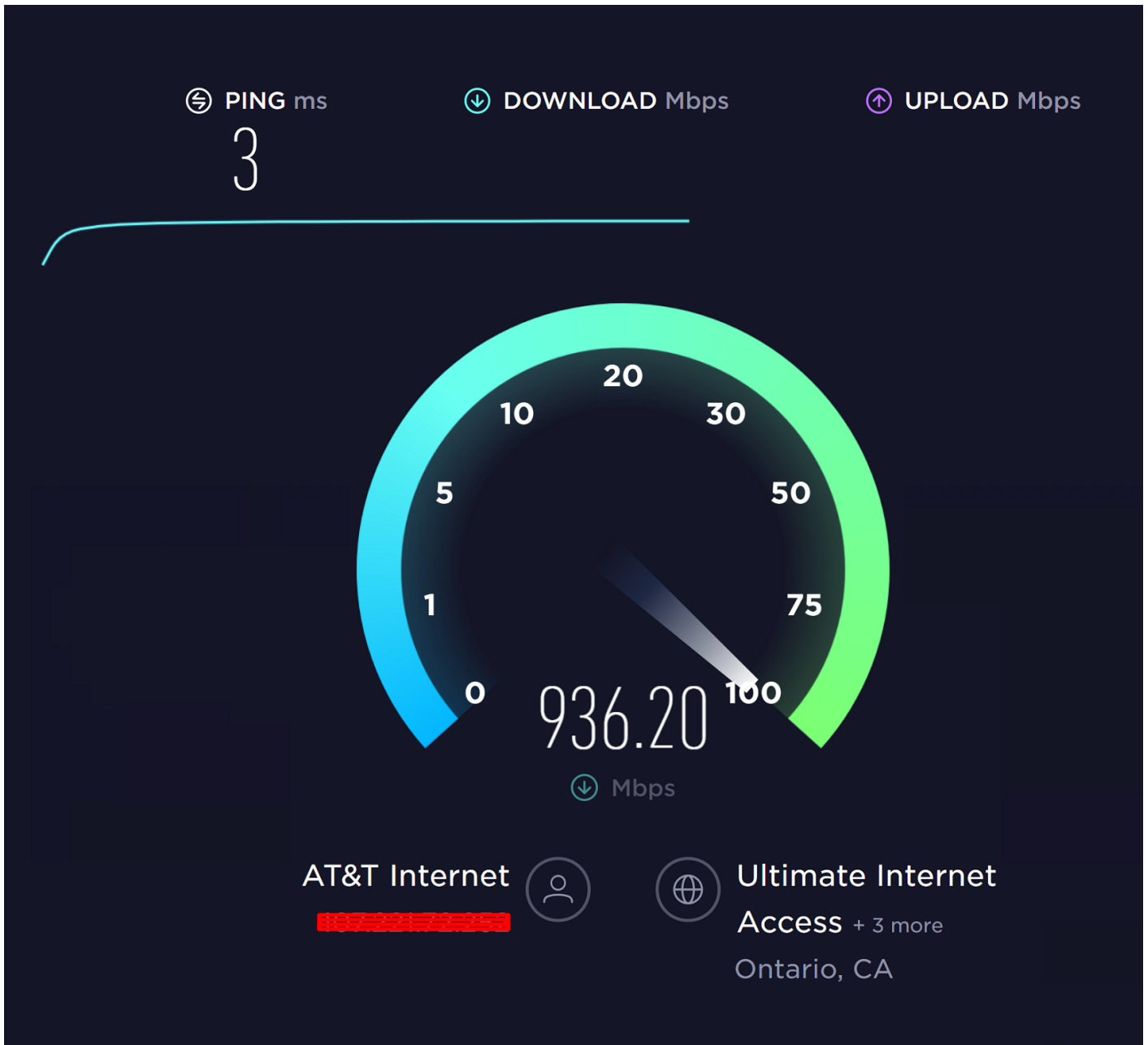
Do **NOT** stream 4K content without first reading this article and getting proper permission by the administrator. Doing so can cause adverse affects on the server and hinder performance for **EVERYONE**. I reserve the right to revoke access to any library you currently have access to.

Being able to stream properly on Plex is something that is dependent your Internet speed, the quality of the content you are streaming, and the streaming device itself.

For example, if you have a download speed of 10mbps, I don't recommend you use Plex to stream anything higher than 720p (and even that is a stretch).

1. Finding your Internet speeds

You can check your current internet speeds at speedtest.net which will give you accurate download and upload speeds. Upload is not particularly important for streaming Plex.



2. Figuring out the quality of the content you are streaming

Next we need to determine what content you are streaming and its quality. This guide is assuming you are streaming on a PC or with your web browser however every Plex player should have the ability to determine the quality and bitrate of the file you are streaming.

1. For finding out the quality and bitrate you are streaming. Follow the images.



Kingsman: The Secret Service

2014

2 hr 8 min R 75% 84%

PLAY [Icons]

The story of a super-secret spy organization that recruits an unrefined but promising street kid into the agency's ultra-competitive training program just as a global threat emerges from a twisted tech genius.

DIRECTED BY Matthew Vaughn
WRITTEN BY Matthew Vaughn, Jane Goldman
STUDIO 20th Century Fox
GENRE Crime, Comedy, and 3 more

VIDEO 4K (HEVC Main 10 HDR)
AUDIO English (DTS-HD MA 7.1) ▾
SUBTITLES English (PGS) ▾



Kingsman: The Secret Service

2014

2 hr 8 min R 75% 84%

PLAY [Icons]

The story of a super-secret spy org... unrefined but promising street kid into the
agency's ultra-competitive training... threat emerges from a twisted tech genius.

DIRECTED BY Matthew Vaughn
WRITTEN BY Matthew Vaughn,
STUDIO 20th Century Fox
GENRE Crime, Comedy, a

VIDEO 4K (HEVC Main 10 HDR)
AUDIO English (DTS-HD MA 7.1) ▾
SUBTITLES English (PGS) ▾

- Watch Together...
- Play Next
- Add to Queue
- Add to
- Refresh Metadata
- Analyze
- Fix Match...
- Unmatch
- Sync...
- Optimize...
- Download File
- Share...
- View Play History
- Get Info

Cast



Taron Egerton
Gary 'Eggsy' Un...



Colin Firth
Harry Hart / Gal...



Mark Strong
Merlin



Samuel L. Jack
Valentine



Sofia Boutella
Gazelle



Michael Caine
Arthur



Mark Hami
Professor Arn

Media Info
✕

```
/media/Sapphire/Movies/UHD/Kingsman The Secret Service
(2014)/Kingsman.The.Secret.Service.2014.2160p.BluRay.REMUX.HEVC.DTS-HD.MA.7.1-FGT.mkv
```

Media	Part	
Duration 2:08:44	Duration 2:08:44	Codec HEVC
Bitrate 53394 kbps	File	Bitrate 48658 kbps
Width 3840	Kingsman.The.Secret.Ser...	Bit Depth 10
Height 2160	HD.MA.7.1-FGT.mkv	Chroma Subsampling 4:2:0
Aspect Ratio 1.78	Size 48.01 GB	Coded Height 2160
Video Resolution 4K	Audio Profile ma	Coded Width 3840
Container MKV	Container MKV	Color Primaries bt2020
Video Frame Rate 24p	Has Thumbnail 1	Color Range tv
Audio Profile ma	Video Profile main 10	Color Space bt2020nc
Video Profile main 10		Color Trc smpte2084
		Frame Rate 23.97599983215332 fps
		Height 2160
		Level 5.1

[View XML](#)

Based off the example, you'll see that the movie I have selected has an enormously high bitrate (being 53394 kbps). This means this movie requires a minimum network speed of ~54mbps to stream the content.

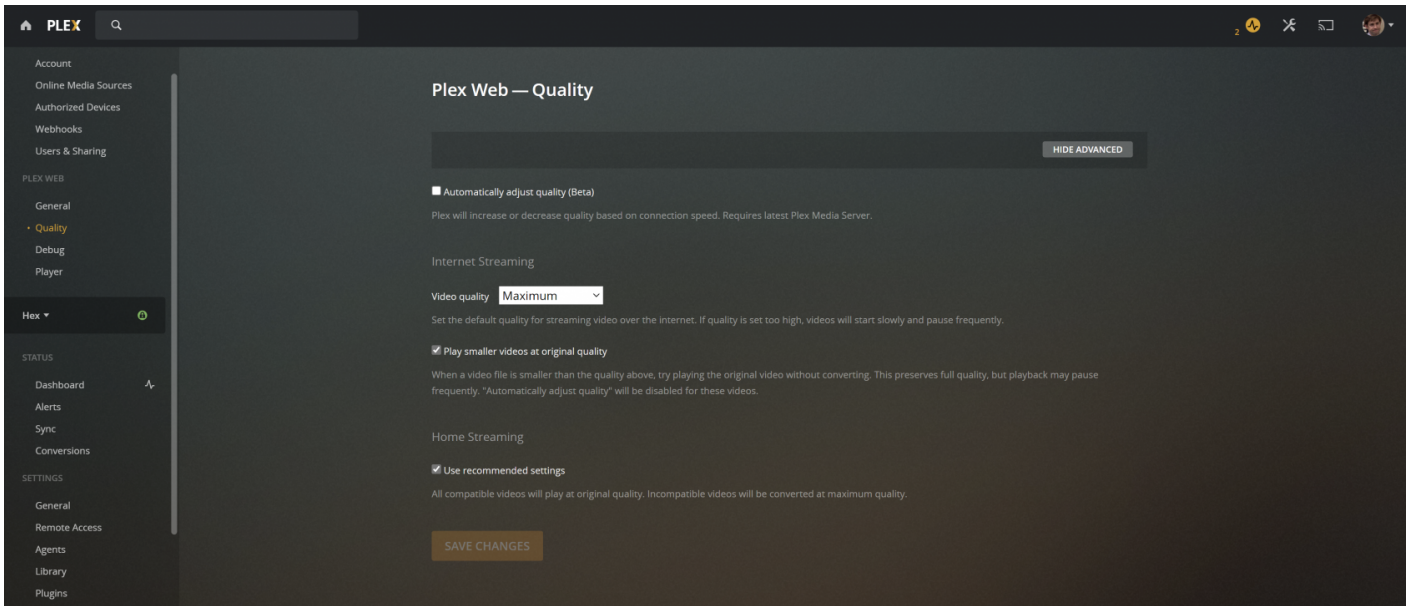
Listed below is a basic chart for streaming content and which qualities usually require higher bitrates.

Your Speed	Video Quality	Video Bitrate
<= 10mbps	720p	<= 5mbps
10-49mbps	1080p	<= 20mbps
>= 50mbps	2160p (4K)	>= 50mbps

3. Forcing maximum quality streams

I recommend majority of people use this option if your internet speed is 100mbps. This is because it will prevent Plex from transcoding content and focus on sending the pure, unedited content to you. Each Plex client is different however a common option you want to look for is *Internet Streaming*.

The Plex web/desktop client can find these options available in settings under *Quality*.



The recommended settings are:

- Automatically adjust quality (Beta): **Disabled**
- Video quality: **Maximum**
- Play smaller videos at original quality: **Enabled**

This does not mean you will always Direct Play/Stream content to yourself and you may still Transcode content.

End of article.

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