Bitmovin’s Stream Lab empowers companies to support and stream on more devices & platforms, while enabling them to ensure quality of experience for their audiences and guarantee ROI through savings on development time, budget, and managing team resources.

Utilizing our video expertise and the device coverage of our industry-leading player, we have developed a client-facing solution that comes with pre-set test cases to be used on physical devices. This gives you and your team the ability to test active streams in real streaming environments and ensure verified & clear results.

**Key Features**
- Test your active streams in real streaming environments on physical devices
- Apply them to pre-set test cases created specifically to insure the quality of your stream
- Test with an industry-leading player
- Easy & Simple: Submit, validate, test and get results

**Benefits**
- Test on older and newer devices models before supporting them
- Transparent reporting anyone can use and review
- Get to market faster and ensure the highest quality of experience for your audience
- Guarantee ROI by saving development time, budget, and team resources

**How Stream Lab works**

**STEP 1**
Submit Streams

**STEP 2**
Trigger automated testing

**STEP 3**
See precise dashboard reporting

**Stream Lab - Test devices & platforms**

- Smart TVs
- Laptops
- Phones
- Tablets
- Gaming Consoles
- Set Top Boxes

**Start your trial today**

Our suite of solutions: Encoding, Player, Analytics

[www.bitmovin.com](http://www.bitmovin.com)
## Player features & capabilities overview

### Devices

**Officially Supported**
- PC: Mac, Windows & Chromebook
- iPhone, iPad, Apple TV
- Apple AirPlay compatible devices
- Android Phone, Tablet & Android TV
- Android OS based Smart TVs
- Chromecast
- Amazon Fire Tablet & Fire TV
- Roku
- Microsoft Surface, Xbox One
- Samsung TV (Tizen 2016+)
- LG TV (webOS 2016+)
- Hisense (2018+)

**Compatible Devices**
- Sky Q Box
- HbbTV (2.0.1+)
- Panasonic (2018+)
- Vizio (2020+)

### Browsers

- Chrome
- Edge
- Firefox
- Opera
- Safari
- Internet Explorer 11 on Windows 8.1+

### Stream & Device Testing

- Bitmovin StreamLab (Client Facing Testing Feature)

### Workflows & Protocols

**Video on Demand**
- HLS
- MPEG-DASH
- HSS
- Live
  - Low Latency HLS (CMAF)
  - Low Latency DASH (CMAF)

### Functions & Qualities

- Adaptive Bitrate (ABR)
- Multi-Language Audio
- Offline Playback
- Live DVR
- Real-Data Timestamps
- Picture in Picture
- Frame Accurate Seeking
- 4K / 8K / 360 / VR

### Subtitles & Closed Captions

- WebVTT
- SRT
- TTML/DFXP
- CEA-608/708
- Multi-Language CC

### Content Protection

- Widevine
- Fairplay
- Playready
- AES-128 / Clearkey
- Offline DRM
- Client-side Watermarking
- Key Rotation
- Token Authentication

### Integrations and partners

**Direct Integrations**
- Bitmovin Encoding
- Bitmovin Analytics

**DRM Partners**
- Irdeto
- Nagra
- BuyDRM (KeyOS certified)
- Verimatrix
- EZDRM
- ExpressPlay
- Axinom
- + More

**Advertising Partners**
- SSAI: Google IMA DAI
- SSAI: Yospace
- SSAI: Elemental Media Tailor
- SSAI: Envivio
- CSAI: Google IMA
- CSAI: Freewheel (VAST)
- CSAI: SpotX (VAST)

**Peer to Peer Integrations**
- Streamroot/Lumen
- Peer5
- Akamai Media Accelerator

**CDN**
- Akamai
- Fastly
- AWS
- + More

**Analytics Partners**
- Conviva
- Akamai Analytics
- Mux
- Nielsen
- Youbora Analytics (NPAW)
- + More

### Metadata

- ID3 Tags
- EMSG Box
- CUE Tags
- EventStream (MPD Events)
- Program Date Time

### Advertising Capabilities

- Server-Side Ad Insertion (SSAI)
- Client-Side Ad Insertion (CSAI)
- VAST 3.0 / 4.0 / 4.1
- VMAP + Ad Scheduling & Targeting
- VPAID 2.0
- Open Measurement & OM SDK
- Ad Scheduling + Targeting
- Ad Waterfall
- Ad Pods (Pre-Roll, Mid-Roll, Post-Roll)
- Companion Ads
- Overlay Ads on Web
- Skippable Ads
- Ad Macros (Configurable)
- Prefetch VAST/VMAP Tag
- Ad Verification + Ad Viewability

### Other Playback Features

- Preview Thumbnails
- Trickplay (Fast-Forward and Rewind)
- Variable Playback Speed
- Configurable Video Quality Settings
- Audio Only Player
- Network APIs
- Manifest Read APIs
- Buffer Management APIs
- Preload Ad and Video APIs
- Custom UI Skinning

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Start your trial today