

The Bitmovin Player: Stream Lab

The first **automated stream testing** feature built to guarantee quality of experience and functionality across any device

Bitmovin's Stream Lab is the first automated testing solution that empowers streaming platforms to assess their viewer's quality of experience and their stream functionality on a wide range of physical devices without officially supporting them.

It enables them to view verified & clear results, ensure audience satisfaction and retention and guarantee ROI through savings on development time, budget, and team resource management.

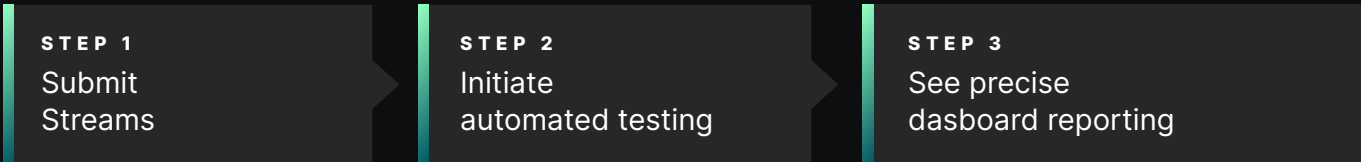
Key Features

- ✓ Analyze your active streams in real streaming environments on physical devices
- ✓ Audit DRM-protected and geo-fenced streams with VPN support
- ✓ Access pre-set test cases to ensure stream functionality
- ✓ View quality of experience metrics

Benefits

- ✓ Easy & Simple: Submit, validate, test, and get results
- ✓ Test on older and newer devices with an industry-leading Player
- ✓ 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



Stream Lab: Test devices & platforms



TIZEN webOS   XBOX     

Start your
trial today

Player features & capabilities overview

DEVICE SDKS

Officially Supported

PC: Mac, Windows & Chromebook
iPhone, iPad, Apple TV, Vision Pro
Apple AirPlay compatible devices
Android Phone, Tablet & Android TV
Android OS based Smart TVs
Chromecast
Amazon Fire Tablet & Fire TV
Roku
Sony PlayStation 5
Microsoft Surface, Xbox One Series
Samsung TV (Tizen 2017+)
LG TV (webOS 2017+)

Compatible Devices

Comcast X1
Sky Q Box
HbbTV (2.0.1+)
Panasonic (2018+)
Vizio (2020+)
Hisense (2018+)
Samsung TV (Tizen 2016)
LG TV (webOS 2016)
PlayStation 4

BROWSER SDKS

Chrome
Edge
Firefox
Opera
Safari

CROSS-PLATFORM SDKS

React Native SDK
Flutter SDK

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
Playlists
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

METADATA

ID3 Tags
EMSG Box
CUE Tags
EventStream (MPD Events)
DATERANGE Tags
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
HLS Interstitials
SharePlay

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: MediaKind Prisma
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

Start your
trial today