

# FAMIUM SAND

Deep Streaming Metrics and Coordination using DASH SAND




The background features a vibrant, multi-colored gradient of rays emanating from the top center, transitioning from yellow and orange on the left to red and purple on the right. Numerous white stars of various sizes are scattered across the scene, creating a celebratory and dynamic atmosphere.

# FAMIUM SAND

helps *streaming providers*

solve unreliable delivery and client playback for live video streaming

A black silhouette of a crowd of people is shown at the bottom of the slide, with their arms raised in various gestures of celebration and excitement, such as pointing, clapping, and fist-pumping.

by introducing a solution allowing to collect streaming metrics and autonomously optimize streaming parameters across multiple video players and network segments powered by machine learning.

# THE FAMIUM SAND STREAM ANALYTICS SOLUTION



## Collect

- collect streaming metrics
- In depth video client data



## Analyze

- Autonomously optimize streaming parameters
- Understand problems and client behavior
- Powered by machine learning



## Report

- Provide technical recommendations
- Automate video workflow analysis
- Optimize user experience

# Streaming Metrics and Analytics

Avg. video bitrate

Background

Bitrate distribution

Browser

Buffer Level

Client ID

Connection type

Device type

Desktop/Mobile device etc.

Downlink

Dropped frames

Effective type

Fullscreen

GET Requests

HTTP errors

IP address

Locale

MPD URL

OS/CPU

Operating system

Orientation

Pixel-ratio

Platform

Rebuffer count

Rebuffer percentage

Rebuffer rate

Representation Switches

Round trip time

Screen Height

Screen Width

Session Duration

Session ID

Startup time

Timezone

Video element height

Video element width



## ✓ Collection and analysis of OTT streaming metrics

- Start-up/ buffer times, representation switches, bitrates, dropped frames, etc.

## ✓ Monitoring Tool

- Detect problems with new devices, software updates..
- Reliability of VoD/Live, ad-insertion sessions

