

FAMIUM SAND

Deep Streaming Metrics and Coordination using DASH SAND



FAMIUM SAND

helps *streaming providers*

solve unreliable delivery and client playback for live video streaming

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

