

Video streaming & OTT testing Client Case Studies



Media Performance analysis, Test Automation and DevOps

- **Media performance Analytics**
 - **Client and Backend Test Automation**
 - **Application DevOps on AWS**
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- Analyze and optimize media session's startup performance
 - Continuous test assurance with E2E Web(Platform), API and Streaming use case validation
 - Automated Testing of OTT Client Reference Applications
 - Continuous Integration, Provisioning, Deployment and Monitoring on AWS Cloud



Scope:

Analytics to measure, analyze and optimize media session's startup performance

Challenge:

1. Capture media session's startup time with breakout for major events
2. Monitor and analyze performance data and identify areas for optimization
3. Generate performance report from analytics data as well as from device logs.

Solution:

1. Integrated trace module to measure time taken by identified major events and pushed the data to backend for each successful playback session
2. Automated scripts to run the performance tests and generate reports using device logs
3. Analytics dashboards to monitor startup performance

Outcome:

A tool to monitor media session's startup performance and to identify areas for optimization

Client:

Mediakind

Industry:

Digital Media Streaming

Technology Service:

OTT Client SDK



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Scope:

Automated Testing of OTT Client Reference Applications

Challenge:

1. Automation of over 1500 manual OTT test cases for 4 different reference applications
2. Support platforms – Android, Android STB, iOS, tvOS, Edge, Chrome, Firefox and Safari
3. Playback quality analysis using playback statistics
4. Failure classification
5. CI-CD integration

Solution:

1. Adapted Rebeca's tried and tested 5G testing framework ABot for OTT use case
2. Adapt codeless automation and feature file reusability a core feature of ABot framework
3. Add support for various platforms using Appium and Selenium drivers
4. Capture playback analytics and validate playback quality
5. Rule based post processing of the results / logs for issue classification
6. Deployed in ADO for automated test execution

Outcome:

Highly adaptable ABot framework for OTT client player application with over 1500 reusable test cases