



DISCOVER
falco^oneye



“Test automation mindset is about solving quality problems and not just about the step-by-step replacement of manual steps.”

Without measurable automation, effective continuous integration is only a myth.

- Automation Productivity – Measuring the productivity of automation is the measure of agility. Only 10% of the organizations achieve Return on Investment in a CI-driven development world
- Automation Coverage – Traceability to product user stories and improved percentage of automation indicate the effectiveness of shift-left



Implications

- Reduced automation productivity, especially in Continuous Integration/Delivery scenarios, results in poor market resilience – Directly impacting customer satisfaction and churn
- Without expanded sanity coverage, the effectiveness of test automation is questionable
- If the cost per script is not reduced, Test Automation would become unviable
- With the Quality of video experience becoming more important, functional automation frameworks alone do not sufficient address the social media-sensitive customer needs.
- Siloes device testing results in high-cost multi-tool/framework ownership and maintenance cost



Think automation, think framework

- Define and track KPIs and matrices on Automation productivity
- Employ more opinionated Frameworks to ensure UI agnostic Scripting & Reusability
- Work towards integrated test strategy across devices
- Define QoE strategy based on leading indicators right into the dev-test cycle
- Look beyond drag and drop framework for serious automation coverage

DISCOVER FalconEye

A comprehensive video test automation platform

Any Device, any App, @ any Scale

Multi-screen & Multi-device App Test Automation

- Functional/Regression/Smoke/Sanity/...
- Performance/QoE/AV quality analysis
- Stability/Stress testing

Player Testing

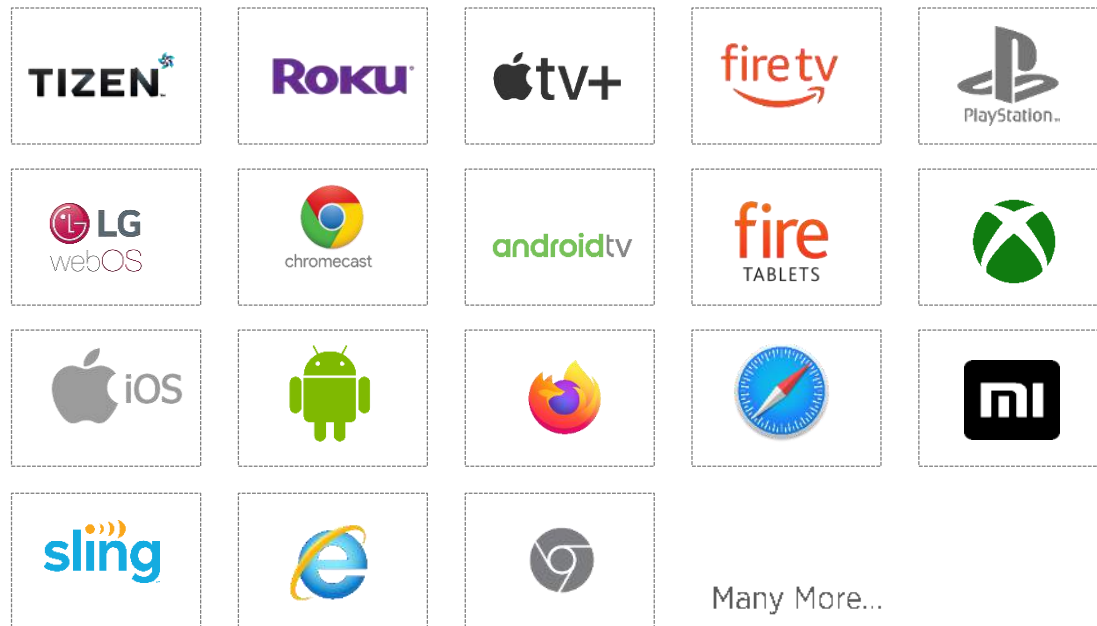
- Player functionality – Video & Ad playback
- Player performance – Video & Ad playback
- Validate agent-based performance values against frame-by-frame analysis

Last Yard Video Quality Measurement

- Wifi/ISP impact on QoE
- Test house scenarios

Supported Platforms

Single platform for **Web, Android/iOS platforms, streaming devices** (Eg: fire TV stick/Roku), **Smart TVs, gaming consoles** (ex: PS4/Xbox) and **Set-top-boxes**



DISCOVER FalconEye



With VS Code support, debug and triage automation code like never before



60 FPS accurate results, help triage faster and focus on fixing issues



Dashboards for actionable analysis



Work-from-home enabled test environment for manual testing



python

Python powered automation scripting for better coverage & flexibility



AI-driven Image, Audio and video algorithms for high performance in scale



Correlate and Analyse the network calls with video QoE and App performance



Automation based on real devices gives real actionable data

Platform Capabilities

- 4K/ HD/ SD video support
- IR, IP, Bluetooth remote controls
- Power Control
- OCR comparison
- Image comparison
- Audio/ Video analysis
- Control IP network
- Capture network traffic
- Capture device/ serial logs
- Capture video & test logs
- VS code plugin for scripting
- Integration with Selenium
- ADB wrappers
- CI/CD Integration
- ALM Integration
- API access to the database
- Customizable dashboards

Much More...

Key Highlights

- No limit OCR license
- No limit Image comparison license
- AI/ML backed video quality analysis
- Test vs. Video log vs. Network log vs. Device log correlation for quicker triaging
- Modular architecture that allows integration with other third-party tools and frameworks

ABOUT US

Tata Elxsi, headquartered in Bengaluru, is amongst the world's leading providers of design and technology services across industries including Automotive, Broadcast, Communications and Healthcare. This is supported by a talent pool of over 6000 employees and a network of design studios, development centres and offices around the globe including NA, Europe & APAC.

Tata Elxsi helps customers reimagine their products and services through design thinking and application of digital technologies such as IoT (Internet of Things), Cloud, Mobility, Virtual Reality, and Artificial Intelligence.

TATA ELXSI

Tata Elxsi Limited

ITPB Road | Whitefield | Bangalore 560 048 | India
Tel +91 80 2297 9123 | e-mail info@tataelxsi.com

www.tataelxsi.com