



DISCOVER  
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## “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 coverage and automation productivity are the two key metrics that impact the RoI
- Only 10-15% of the organizations have managed to achieve automation coverage of more than 70%
- The automation productivity of more than 60% of organizations is less than two scripts per day
- Average cost per script across organizations is between 300\$ to 1000\$, which is too high to sustain



### Some of the key reasons

- Inclination towards drag and drop automation tools and frameworks, which are great as a sales pitch but delivery only 10-20% coverage in reality
- Acquisition of multiple automation tools for device diversity and automation coverage leads to a high cost of ownership and maintenance. Not just that, the organizations are unable to leverage the expertise gained by the workforce over particular tool across other teams
- Focusing on monolithic script development without worrying about reusability, UI, and device agnostics is leading to higher development and maintenance efforts
- Outdated automation tools that are unable to support evolving test requirements such as player testing, video, and Ad playback testing are leading to further drop in automation coverage



### Think automation, think framework

- Employ more opinionated frameworks to ensure UI agnostic scripting & code reusability. Standardize framework based scripting to include precondition, cleanup, traceability, and recovery mechanisms
- Think long term, look beyond drag and drop, and embrace scripting languages like Python for serious automation.
- Work towards integrated test automation strategy across device platforms for efficient device coverage. Optimize resource utilization, both in terms of test infrastructure and workforce.
- Look for modular platforms that support both functional and performance testing and allows integration of third-party libraries for higher automation coverage
- Partner with vendors who have an active roadmap and a long term plan

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A comprehensive video test automation platform

## Any Device, Any App

### Multi-screen & Multi-device App Test Automation

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

### Player Testing

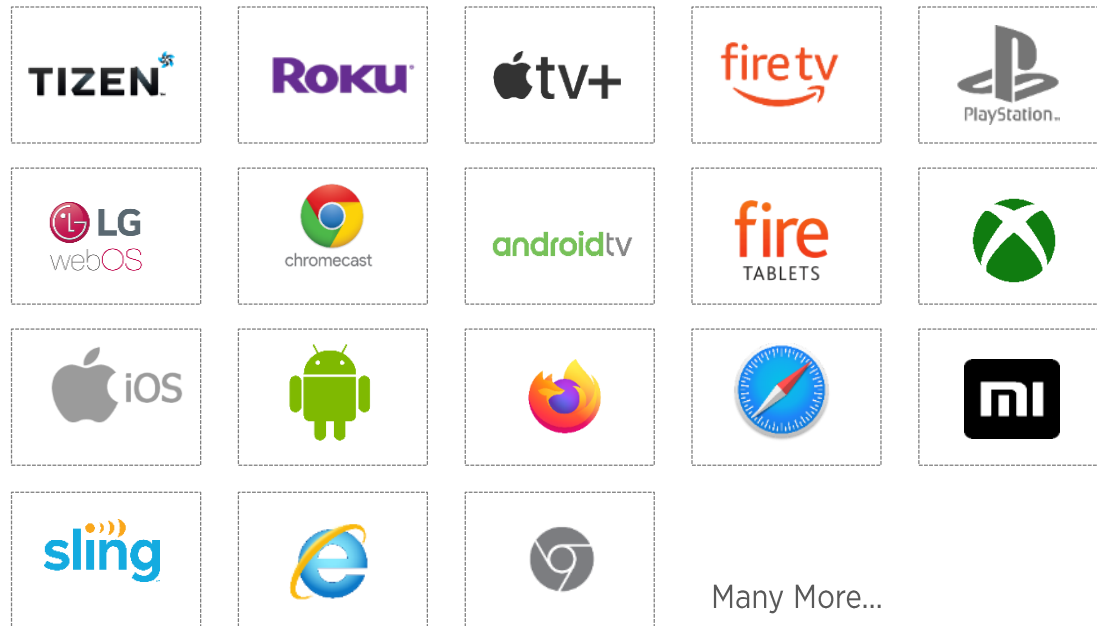
- Player functionality – Video & ad playback
- Player performance – Video & ad playback
- Validate agent-based performance values against frame-by-frame analysis

### Last Yard Video Quality Measurement

- Wifi/ISP impact on QoE
- Test house scenarios

## Supported Platforms

Single platform for **Web, Android/iOS platforms, Streaming devices, Smart TVs, Gaming consoles and Set-top-boxes**



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## Key Highlights



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



Python powered automation scripting for better coverage & flexibility



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



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



Dashboards for actionable analysis



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



Work-from-home enabled test environment for manual testing



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
- CICD Integration
- ALM Integration
- API access to the database
- Customizable dashboards

Much More...

## 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](mailto:info@tataelxsi.com)

[www.tataelxsi.com](http://www.tataelxsi.com)