

L&T Technology  
Services

Cogmation



***L&T Technology Services***



# Quality Assurance & Testing



## Challenges

The challenge is to conduct automated testing in such a manner as to reduce time and cost of testing process, while identifying most of the defects prior to launch of products

- OEM across verticals incur huge losses due to delayed product launches caused by inefficient and/or ineffective testing processes
- Unexpected bugs, found after product launch, dent company reputation



## Ideal Solution

Ideal Test automation solution will enable:

- DevOps and Continuous Integration
- Remote Testing
- End-to-End Testing

- With customers adopting Agile, testing should also support DevOps
- Location of Devices Under Test should not be a constraining factor
- Same automation set-up should test apps & embedded devices



## Desired Outcomes

Customers are looking for a test automation solution that ensures:

- faster time to market
- Superior product quality

This market is expected to top USD 28b by 2024

- Faster Time to Market is achieved by reducing the time required for automation scripts development and root cause analysis
- Superior product quality is achieved through robust validation methods in automation and maximum automation coverage



# L&T Technology Services

## Cognition, the Test Automation Tool



### Intelligent and End-to-End Test Automation for Applications and Embedded Devices

#### Ease of Scripting

- Keywords based scripting allows easy and fast development of new scripts
- Keywords allow efficient porting of scripts across platforms
- Cognition comes with repository of existing Keywords

#### End-to-End Testing

- Support for testing embedded protocols such as Serial/UART, Ethernet, Modbus, BACnet, CAN, RS-XXX, BT etc.
- Support for testing web apps on all leading browsers
- Linux/Windows Desktop apps
- Native/Hybrid mobile apps

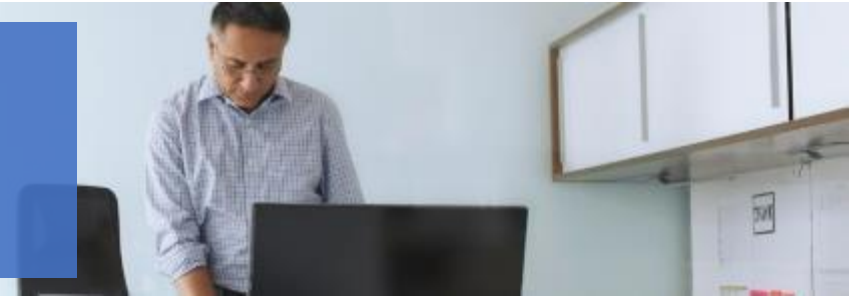
#### Superior Validation

- Industry-leading OCR for accurate text extraction
- Superior Video Quality Analysis on Live Streams
- Intelligent UI elements validation that accommodates minor changes in UI without script changes

**Cognition test automation tool's industry-leading features, coupled with our deep domain expertise across industry verticals, enables us to offer a one-stop-solution for end-to-end test automation.**



# L&T Technology Services – Cogmation + Microsoft - Azure



**Inherent features of Cogmation, as augmented by Azure services enable an unbeatable value proposition for test automation of applications and devices across industry verticals**

## Solution Alignment

### Continuous Integration - Continuous Testing

**Cogmation integrates with Azure DevOps pipeline to enable CI-CT whereby build-specific relevant test scripts are automatically identified and distributed on available test benches to optimize execution**



### Remote Test Management

**Cogmation, as ported on Azure, can be accessed from anywhere in the world and automated tests can be executed remotely on any platform or devices**



### Root Cause Analysis

**Cogmation leverages analytics and visualization services from Azure to enable efficient root cause analysis for faster remediation**

