



Cognizant TeBOT

Assure technology change at speed with robot-assisted testing.

The digital age has brought with it a new paradigm, across all industries, processes and operations. Advances in the Internet of Things (IoT) landscape are helping businesses build new services and smarter products that improve our customers' day-to-day lives. However, a long shelf life of smart devices and effectiveness of an IoT solution requires end-to-end testing for backward compatibility and interoperability between various technology elements - firmware, devices and OS. Usually, testing activities are mostly carried out manually leading to prolonged testing cycles.

Cognizant TeBOT automates human-to-machine and machine-to-machine interaction at the physical-digital boundary for IoT.

Cognizant's robotic testing solution TeBOT enables integrated automation of the physical and virtual world. Powered by Raspberry Pi, TeBOT replicates user actions on smart devices for end-to-end testing. Capable of interacting and driving multiple customer touchpoints like portals and mobile apps, TeBOT can also be provisioned for CI and DevOps environments.

TEBOT, through its various avatars, plays a unique role in providing domain centric solution in the IoT ecosystem



WEARABLES

Wellness and fitness applications of healthcare and sports industry

- Smartwatches/Smart Phones
- Wearables/Fitness Trackers
- Pedometer based devices
- Health tracker body patches
- Physical Activities (Walk, run, etc.)
- Human Profiles (Athletes, Senior Citizens, etc.)



HOME AUTOMATION

Product roll out for technology companies, Smart city and smart grid solutions by Energy and Utilities companies.

- Door Sensor
- Motion Sensor
- Sound/Glass Break Sensor
- Flood Sensor
- Motion Detecting Camera
- LDR based LED detection
- Amazon Alexa Integration (TTS)



POINT OF SALE, TOUCH KIOSKS

PoS terminals, pin pads, telematics head unit and infotainment systems. Camera integration and an integrated platform helps remote testing of the hardware devices.

- Rotary based controls
- 3-D Robotic plotter
- Pinpad, Thermostats, etc.
- Card Swipe in/out (sideways)
- Chip Card Insert/Exit
- NFC Tap
- Multi card slot
- E-Signature authorization
- Valid/Invalid PIN entry
- Touch Screen Kiosk & Devices (In-Vehicle Infotainment)
- IVI - Car Dashboard automation (Android auto/Apple Car play)
- Visual Capture for LCD devices
- Image analysis and validation
- Remote execution for TEBOT

Why businesses need Cognizant's TEBOT:

- Helps simulate test cases accurately, which can be difficult and time-consuming through manual testing approaches.
- More than 30% reduction in test cycle time compared to manual testing.
- Over 40% reduction in cost of quality pertaining to Smart Device certification.
- Easy replication of real world scenarios in a lab environment.

TEBOT in Action: Home Automation for a U.K. Utilities provider

The client wanted to launch its new range of Home Automation products in the fiercely competitive U.K. market. End-to-end testing of the Home Automation solution using Cognizant TEBOT in a lab environment resulted in successful launch. Positive customer feedback and improved customer satisfaction levels helped the client to significantly increase active consumer base.

To learn more about how Cognizant TEBOT can benefit businesses, please reach us at: QEACoEIoTolutions@cognizant.com

About Cognizant

Cognizant (NASDAQ-100: CTSH) is one of the world's leading professional services companies, transforming clients' business, operating and technology models for the digital era. Our unique industry-based, consultative approach helps clients envision, build and run more innovative and efficient businesses. Headquartered in the U.S., Cognizant is ranked 230 on the Fortune 500 and is consistently listed among the most admired companies in the world. Learn how Cognizant helps clients lead with digital at www.cognizant.com or follow us @Cognizant.



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