IOT TESTING SERVICES





Why DRIVEN-4

- Listed Top 20 IoT solution provided in CIO Review 2018
- Proven competency in IOT with
 25000+ hours of experience
- Centre of Excellence with 20+ professionals in IoT with experience in mobile app, IoT platform, Cloud, Hardware devices design & Firmware.
- CoE comprising of certified Solution Architects, Project Managers, Developers and QA specialists
- Implemented IOT across multiple domains like manufacturing, consumer products and logistics.
- Global Deliver Model 24/7
 Flexi support

Value Adds

- Testing Frameworks
- Test Automation and Simulators
- ROI Calculator
- Design Thinking Approach
- Agile Methodology
- Cost Effective Model

IoT Testing for seamless performance & functionality of your Intelligent Products

We assure thorough validation and software testing of your IoT enabled application

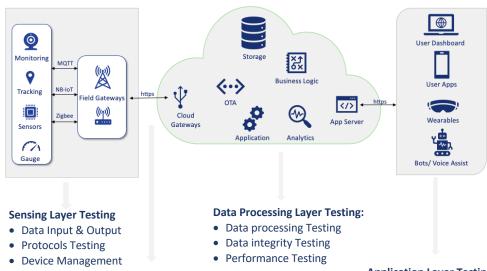
Why IoT Testing

Quality and Performance form the keystone of IoT devices to function and interconnect seamlessly. We ensure testing of the end-to-end functionality of multiple devices across platforms.

3 major benefits of IoT Testing:

- 1. **Improve Engagement:** IoT Testing ensures that the end users get best-in-class user experience across multiple channels (device, web, mobile)
- Future-proof the business: IoT Testing provides an integrated approach to validate the practical and non-functional requirements of the IoT solutions. It also future-proofs the business by ensuring interoperability, security and performance testing
- 3. **Accelerate Time-to-Market:** IoT testing ensures faster time-to-market by leveraging early automation

IOT TESTING SERVICES



Network Layer Testing:

- Security Testing
- OTA Testing
- Compliance Testing

Application Layer Testing:

- Functional Testing
- API Testing
- End User Testing

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Challenges of IoT Testing

- Dynamic environment: Unlike application testing performed in a defined environment, IoT has a very dynamic environment with millions of sensors and different devices in conjunction with intelligent software.
- Real-time complexity: IoT applications can have multiple, real-time scenarios and its use cases are extremely complex.
- Scalability of the system: Creating a test environment to assess functionality along with scalability and reliability is challenging

Tools We Use





























About DRIVEN-4

The DRIVEN-4 core team benefits from a deep background in IT, IoT and enterprise application implementations. Specialize in technologies and services that boost operational efficiency, improve collaboration and spark innovation. Our experience in product delivery and industry knowledge provides unique perspective on software architectures and large software implementations.

TEST TESTING PROCESS

CONSULTING SERVICE

- Readiness Assessment
- Target State Recommend
- Deployment Roadmap
- Cyber Security
- Business Case

PLATFORM

- Web & Mobile Applications
- Device and Firmware
- Cloud Hosted Applications
- Testing in CI\CD Environments
- Enterprise Applications



TESTING CYCLE

Functional Test Automation

- Model Based Test Identification
- Framework Development
- Test Scenario & Test Data Web Service Test Automation
- SOAP Services (WSDL/XML)
- REST Services (JSON)
- Cloud based Mobile Test Automation
- Develop & Playback sets
- Multi devices / User Experience

TOOLS

- Selenium
- Appium (for Android)
- X-code (for iOS)
- MQTTfx
- SOAP UI / Postman

CASE STUDIES

Connected Indoor Air Quality System

Customer Need: Design, develop, test, deploy and maintain new product line for indoor air quality system which is smart, connected and pluggable.

Our Approach: Design the system using best IoT technologies available. System that is scalable & secured hosted on AWS, MQTT, Thingworx, Java Spring boot, Flutter, Swiftic.



Key Success Factors: A stable system hosted on cloud, that is functional, highly secured, stable with intuitive Mobile app UI

Case Study #2

Connected Spa – Develop & Test



Customer Need: Migrate existing connected Spa system with better technology and maintainability. Our Approach: Build parallel IoT system on Azure cloud, used Azure SQL, IoT Hub and VMs. System that can connect to both existing and new devices. Newer smart system interfacing CRM & PIM applications.

Key Success Factors: Easy switch for users with better, lighter mobile apps with highly responsive system. Update firmware pointing, migrate customer data and smooth turn around for customer support.



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