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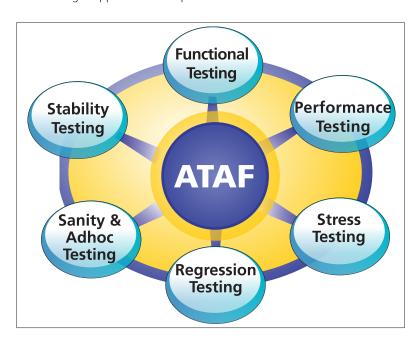
As per Gartner's predictions, Android will be world's 2nd most popular Smartphone platform by 2012. With over 30 devices and 38,000+ apps (as on Q1 2010) and the numbers growing exponentially, quick time-to-market has become topmost priority for all stakeholders.

Device testing represents the largest portion of the development schedule. Reductions in the testing cycle correlate to faster launch time. L&T InfoTech's Android Test Automation Framework (ATAF) is a scalable test solution that can reduce development costs, improve quality, and decrease testing cycle time significantly.

### What is ATAF?

L&T Infotech's Android Test Automation Framework (ATAF) is a test tool based on android Open Source tools and Python scripting language. ATAF has the facility to test the interaction scenarios for Android based mobile devices. The framework executes the test automation scripts on the device and captures the result in structured format.

ATAF can operate either in Remote mode or in Standalone mode, and the test coverage supported is as depicted below:



# **Benefits**

- User-Friendly GUI
- Easy-to-use tool, needs very little learning time
- Scalable interface architecture
- Minimizes testing time, thus reducing time to market and testing costs
- Many Tests, One Report
- Re-usable test scenarios

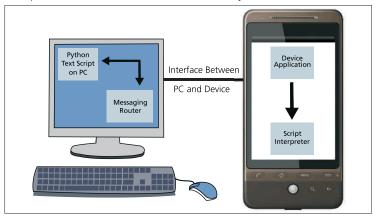
# **Key Features**

- Operating Modes:
  - Remote Mode: From PC to device
  - Standalone Mode: On device
- Tests for Multiple Device Interaction scenarios
- Record & Playback support
- Multiple scenarios execution
- User friendly Test Report generation (eg.HTML format)
- 400+ repository of interaction scenarios

# **Android Test Automation Framework (ATAF)**

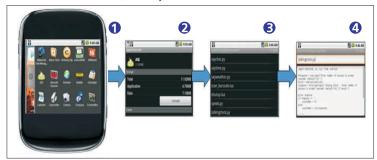
# **Remote Testing**

In this mode, ATAF runs on PC and mobile the device (DUT) is connected through a messaging router. This mode helps testing of multiple device interaction scenarios effectively.



# **Standalone Testing**

This mode allows easy execution of test scripts on the device. Record and play facility further enhances the capability through generation of reusable test scenarios, directly on the device.





# **CASE STUDY**

### The Client

Leading Handset OEM

### **Case Summary**

#### The Challenge

Client was looking for a partner who help automate testing activities, for faster launch, of their new Android devices

#### **The Solution**

We used our ATAF framework to provide comprehensive testing for their Android phones. Majority of key test activities like Functional, Performance, Stress, Regression and Stability scenarios were automated. ATAF's also helped enhance the test coverage through multi device interaction and Record & Play back facility scenarios testing

#### The Benefits

Test cycle reduced by 30% and test coverage improved significantly

### **Ready-to-test Features**

Messaging = Calling = Camera = Camcorder = Video Player = Browser = Contacts = Settings = File Manager = Organizer

Push-to-Talk Multimedia applications (GMS) = GPS applications = Mobile TV = JAVA apps = MS Office = Qwerty keypad

Dual SIM = Mobile Tracker Data support = Accessories support = Bluetooth

## **About L&T Infotech**

L&T Infotech, one of the fastest growing IT Services companies, is ranked by NASSCOM as 8th largest Indian software & services exporter from India and is amongst NASSCOM's Top 20 IT-BPO Employers in India (FY2009-10). It is also ranked 7th in DATAQUEST-IDC top 20 IT Best Employers Survey 2010. A wholly-owned subsidiary of Larsen & Toubro, a US\$ 11.7 billion engineering, manufacturing & financial services organization with global operations, L&T Infotech is differentiated by its unique Business-to-IT Connect, which is a result of its rich corporate heritage.

We offer comprehensive, end-to-end software solutions and services in the following industry verticals: Banking & Financial Services; Insurance; Energy & Petrochemicals; Manufacturing

(Consumer Packaged Goods/Retail, High-tech, Industrial Products, Automotive), and Product Engineering Services (Telecom). Our new emerging verticals include Media & Entertainment and Life sciences & Healthcare. We also deliver business solutions to our clients in the following horizontals / service lines: SAP, Oracle, Infrastructure Management Services, Testing, Consulting and Business Process Services. Our other service offerings are: BI/DW, Legacy Modernization, Applications Outsourcing, Architecture Consulting, Enterprise Integration, Service Oriented Architecture, Systems Integration and PLM.

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