



# MPHASIS ON MOBILE SECURITY TESTING

## Security Testing for Better Apps

### Providing the best protection against mobile security threats

An explosion of mobile applications today has led to an increased demand for reliability, security and ease of use. While optimistic projections for the cloud-based mobile applications market peg growth rates at 88% between 2009-14<sup>1</sup>, there are significant hurdles in the form of stringent regulatory and compliance requirements and certifications that need to be overcome if tangible growth is to be attained.

- 800% increase in mobile application vulnerability disclosures – HP Cyber Risk Report 2012
- 63% of CIOs surveyed blame security costs as a roadblock to mobility – eWeek.com
- Mobile Malware grew 155% in 2011 and to a whopping 614% from March 2012 to March 2013 – Juniper Research
- 73% constituted fake installers/SMS Trojans and 27% constituted all other threats in Android segment – Juniper Research

It becomes imperative then, to have a superior testing process, which guarantees the success of a secure backend application implementation and its mobile client interface. To be

truly comprehensive and effective, the security testing process must include Vulnerability Scanning, White Box Testing, Gray Box Testing and Firewall Configuration. Without an adequate and efficient testing process, companies face the risk of releasing applications with critical security vulnerabilities resulting in significant reputation and compliance risks.

#### **Mphasis Mobile Application Security Testing Solutions**

The Mphasis Mobile Application security solutions offers a holistic security testing framework that can prevent vulnerabilities to known security threats such as OWASP Mobile Top 10 Risks, SANS Top 10 and ensure compliance with PCI DSS guidelines. Mphasis Mobile Security Testing Solutions is an inherent part of **Mphasis Testing as a Service (mTaaS)** a mobile application testing offering through a catalog service model characterized by a “Pay as you go” model. The mTaaS offering framework presents a combination of people, processes, commercial tools and custom-built scripts to identify the mobile application vulnerabilities. The mTaaS model helps in providing cost predictability at the start of the service and flexibility in selecting services as per requirements thereby ensuring faster time-to-market.

 Billion Dollar Company

 Global Service Provider

 Applications, Business Process Services and Digital Technology Operations

 Banking & Capital Markets • Insurance  
• Manufacturing • Healthcare & Life Sciences  
• Communications, Media & Entertainment  
• Transportation & Logistics  
• Retail & Consumer Goods  
• Energy & Utilities

- Detect local storage issues for proprietary and third-party applications
- Test application resilience against reverse engineering
- Leverage both open source tools and commercial tools
- Identify and reporting issues

**Mobile Application Security Testing (Grey Box Testing)**

- Detect backdoor and suspicious code
- Detect weak algorithm usage and hardcoded keys
- Detect certain platform specific issues
- Actionable reports with precise platform/application specific solutions

**Mobile Application Code Review (White Box Testing)**

The Mphasis mTaaS solution offers Gray Box Testing and White Box Testing that address vulnerabilities like OWASP (Open Web Application Security Project) and Mobile Top 10 risks.

### What does the Mphasis Mobile Security Testing test for?

The Mphasis Mobility Application Security Testing program ensures unparalleled security for your apps before they go live. Each version of the app undergoes rigorous security



testing against stringent 12-point security criteria that map to regulatory standards. The Key Security Criteria are:

### The Mphasis Security Testing Advantage

Mphasis represents a potent combination of unremitting focus, technological superiority, knowledge of strategic business metrics and an understanding of market requirements, which gives you an undeniable edge along with substantial benefits such as:

- **State-of-the-art mobile technology** that supports all variants of mobile platform, applications and test infrastructure, thereby enabling thorough security analysis
- **50+ threats identified** across platforms (Android, iOS, Windows) and domains (Banking and mCommerce)
- **150+ reusable security test scenarios** across platforms (Android, IOS, Windows) and domains (Banking and mCommerce)
- **30% reduction in time-to-market** by leveraging a repository of threat profiles, test cases and automation scripts which minimizes not just execution time but human errors as well
- **Reusable testing frameworks** through a test competency group that develops and enhances security test accelerators for various platforms – Android, iOS and Windows. Threat and test repositories for different platforms and domains help in standardizing testing and its outcomes
- **Up to 50% cost reduction** by addressing mobile testing infrastructure cost concerns through an innovative “Pay Per Use” pricing model that suits customer needs and requirements
- **Platform coverage** by covering test cases for multiple platforms – Android, iOS, Windows, and Hybrid applications *Quality Reports* with actionable solutions, and evidence for replicating scenarios *Global Resource Pool* with industry know-how and a deep understanding of best practices, that contributes to the OWASP mobile security project
- **The mTaaS advantage:**
  - o Low risks by virtue of a flexible outcome based model with easy entry and exit options
  - o Innovative ‘Pay Per Usage’ pricing model
  - o No mandated long-term service or minimum volume commitments

## About Mphasis

Mphasis (BSE: 526299; NSE: MPHASIS) applies next-generation technology to help enterprises transform businesses globally. Customer centricity is foundational to Mphasis and is reflected in the Mphasis’ Front2Back™ Transformation approach. Front2Back™ uses the exponential power of cloud and cognitive to provide hyper-personalized (C=X2C2 TM=1) digital experience to clients and their end customers. Mphasis’ Service Transformation approach helps ‘shrink the core’ through the application of digital technologies across legacy environments within an enterprise, enabling businesses to stay ahead in a changing world. Mphasis’ core reference architectures and tools, speed and innovation with domain expertise and specialization are key to building strong relationships with marquee clients.

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