

Android™ Development and Testing Services

Speed Android OS products to market with in-depth engineering services and automated testing support from Bsquare

Highlights

- **Extensive Android platform experience**
- **Competency with numerous devices – handsets to tablets to set-top boxes**
- **Complete software and hardware integration**
- **Comprehensive, automated test strategy and execution**



Overview

The Android operating system for smartphones and other devices still is relatively new to the market, but it has taken the world by storm. New Android-ready devices are appearing every day and Bsquare is supporting this growth with broad expertise in strategic engineering services and automated testing platform support for the Android OS, offering application developers and device makers an end-to-end solution from concept to market.

Bsquare helps OEMs and device makers create the most cost-effective platform solution for any Android device, enabling the creation of applications that maximize both the Android OS and overall device design. Bsquare offers a full range of engineering services for device makers and test organizations of Android-based products including best-in-class development support. Bsquare services range from low-level system development to the creation of compelling graphical user interface applications to expert capabilities in supporting hardware and software integration to device certification including automated testing for both applications and devices.

The expert Bsquare design and development teams provide complete services for designing and implementing compelling user experiences – a task that is increasingly important in today’s world of ubiquitous UI-centered touch screens. Selling within today’s global marketplace means that devices often must be “re-skinned” for dif-

Bsquare Expertise

Bsquare provides a breadth of expertise in Android development, including:

- Driver and middleware development
- UI development for vertical market applications and unique business needs
- Design and creation of custom user experience
- Optimization of content for devices
- Adobe Flash porting to all devices
- Full HTML5 capabilities
- Automated testing solutions including testing of platform implementation, custom UI and applications
- Phone related pre-certifications (Bluetooth®, USB-IF, SD, Wi-Fi)

ferent customer groups. Bsquare also offers capabilities in the two most popular “skinning” interfaces – Adobe® Flash® and HTML5. The Bsquare development experts can conceptualize, design and implement user interfaces that are both engaging and easy-to-use.

In addition, Bsquare offers a full range of automated device testing capabilities through TestQuest Pro and TestQuest Countdown, which are fully compatible with the Android OS. The Bsquare automated testing tools provide both lab-based and distributed-development testing solutions that ensure quality and reduce costly debugging which enable OEMs and device makers to get devices to market faster with less risk.

Benefit From Extensive Bsquare Capabilities

- Access to today's hardware including cutting-edge processors such as Qualcomm's Snapdragon™ Mobile Development Platform (MDP)
- Broad-based software and hardware partner ecosystem
- Expertise with Adobe Flash and access to Adobe Flash source code
- Powerful test lab environment capabilities and collaborative testing solutions for distributed teams

Development and Hardware-Software Integration

The demand for Android devices and applications is growing exponentially. Bsquare offers best-in-class Android development, integration and testing capabilities to support application development, hardware and software integration and device certification support including testing for both applications and devices. With solutions and support from Bsquare, customers can create applications that make maximum use of the growing Android adoption curve and take their devices to market with less risk and expense.

User Experience and User Interface Design

Bsquare offers complete, strategic services for designing and implementing compelling user experiences – a task that is increasingly important in today's world of ubiquitous UI-centered touch screens. The Bsquare development experts can conceptualize, design and implement user interfaces that are engaging and easy-to-use. Selling within today's global marketplace means that devices often must be “re-skinned” for different customer groups. Bsquare also offers capabilities in the two most popular “skinning” interfaces – Adobe Flash and HTML5. With a full service solution from Bsquare, customers can license the HTML5 Rendering Engine and then work with Bsquare engineers to build applications that take

advantage of HTML5. The key benefits of an end-to-end Bsquare development solution include greater flexibility and the use of industry standard code.

Broad Base Industry Partner Ecosystem

At Bsquare we strive to create the best possible devices and end-user experiences for customers, combining world class, in-house embedded-device expertise, tight integration with key industry players such as Adobe, Qualcomm, and Google and a broad network of software and hardware partners to help customers get devices to market quickly. As an Adobe Scaling Partner, Bsquare also offers customers full access to Adobe Flash source code. That means Bsquare can provide customers with licenses to use Flash on any device. The Bsquare team can also optimize Flash for specific hardware, enabling customer concepts to become Flash-based applications that are designed to perform efficiently and optimally.

Industry Leading Test Systems

Bsquare also offers full Android-compatible testing capabilities with Countdown and TestQuest Pro, the industry-leading non-intrusive test systems. As the ultimate test platform for launching mobile devices and applications, Countdown integrates test design, management and execution while enabling collaboration among distributed development teams. TestQuest Pro acts as a virtual user and performs all test execution and test reporting functions. The TestQuest testing platform can generate automated tests for user scenarios with regression and repeatable long stress runs. The Bsquare TestQuest solution also protects the integrity of tests with test-execution software that runs on the TestQuest platform rather than on the device being tested.

For more information, please visit www.bsquare.com. Or email us at sales@bsquare.com

At Bsquare

Bsquare is a solution provider to the global embedded device community. Our teams collaborate with OEMs at any stage in their device development to bring quality products to market faster. Since 1994, Bsquare has been a trusted partner to smart device makers worldwide.

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