

# MOTOROLA RHOELEMENTS



DEVELOP LESS.  
RUN MORE.



# SO MANY MOBILE DEVICES. YOU WANT TO CREATE AN APPLICATION **ONCE** THAT RUNS ON THEM ALL. WITH **RHOELEMENTS**, YOU CAN.

Future-proof your applications and your investments in them. With RhoElements, say goodbye to the increasing confusion and complexity of developing and managing multiple versions of the same application, and say hello to ease of deployment, functional depth and cost savings. You can write an application just once that looks and behaves exactly the same on different mobile devices, regardless of screen size or operating system. Today, RhoElements supports Motorola mobile computers based on Windows Mobile, Windows CE and Android platforms. And in the near future, RhoElements will support non-Motorola mobile devices, more of the most popular operating systems and advanced services, such as cloud-based computing. Get future-proofing, redefined.

With RhoElements' HTML5 framework, you have complete control over application design. You're free to create applications that not only fully leverage device functionality, but also focus on user and customer needs — not operating system constraints. When it comes to application performance, your users will be impressed with lightning fast screen draws and user response times, protecting productivity and reducing user frustration. Because this highly efficient application framework minimizes network traffic, you can add new mobile applications that won't pressure your bandwidth, allowing you to get more value out of your existing network. And with our services, you can keep your RhoElements software up to date and get the support you need during application development.

# THE ELEMENTS

Your workers have come to expect the ease of use and intuitive interface of the applications they use on their consumer-style smartphones and other mobile devices. With RhoElements, you can bring that same capability to your Windows Mobile, Windows CE and Android-based Motorola enterprise mobile computers. You get the elements you need to create applications that require less training, look and behave the same on different screens, offer functionality and usability that surpass Windows Mobile and Windows CE native applications, and still take full advantage of the many data capture features your Motorola mobile computers offer. You can:

## **SUPPORT DIFFERENT DEVICES**

RhoElements applications are device independent. Mobile device technology platform becomes a non-issue — applications will run regardless of architecture, screen size, screen resolution, or whether the devices are connected to a Wi-Fi or cellular network.

## **SUPPORT DIFFERENT OPERATING SYSTEMS**

Create an application once and it will operate on Motorola mobile computers running Microsoft Windows Mobile, Windows CE or Android. Soon, RhoElements will support more operating systems on more devices — including smartphones and mobile computers from other manufacturers.

## **TAKE COMPLETE CONTROL OF APPLICATION DESIGN**

Virtually every operating system has a set of interface design rules specific to that OS. Until today, those constraints were the first thing you had to factor into the design of any application. But RhoElements lets you build web-based applications that free you from operating system rules. Finally, you're free to create graphical user interfaces that enhance your mobile business processes and are intuitive and as easy to use as possible.

## **CREATE APPLICATIONS THAT LOOK, FEEL AND ACT THE SAME ACROSS DEVICES**

Unlike other application frameworks, RhoElements applications provide the ultimate in application consistency — regardless of device type, screen size or operating system, your applications will look, feel and behave exactly the same. For example, all devices with touchscreens can enable users to swipe a finger to rapidly navigate through multiple screens.

## **DELIVER STELLAR APPLICATION PERFORMANCE**

This next generation framework offers all the latest in application development tools. The state of the art HTML5 feature set delivers a substantial performance increase, with screen draws that take place in a fraction of the time typical of today's mobile applications. Two enabling features include WebWorkers, which provides the multi-threading required to simultaneously render a screen and perform business logic and WebSockets, which streamlines the communication pipeline between the mobile computer and back-end servers, enabling faster retrieval of data.

## **TAKE ADVANTAGE OF ALL THE FEATURES ON YOUR MOBILE DEVICES — AND THEIR PERIPHERALS**

Want to design rich applications that take advantage of all the data capture features on your devices and their peripherals? With RhoElements, it's easy to get your users up and running, able to capture bar codes, signatures or photos; process a credit or debit card transaction; print out a sales receipt or a gift registry; and more.

## **CREATE APPLICATIONS THAT CAN SCALE TO FIT ANY SCREEN SIZE — AUTOMATICALLY**

No matter how many supported devices you have in your organization, RhoElements can handle them all. Features allow you to easily develop applications that automatically scale up and down as needed to match the display size on each device. For devices that support screen rotation, the application can rapidly re-draw for portrait or landscape modes when the device is rotated, allowing users to take advantage of the extra screen real estate. And since both developer and user can control when and if a particular screen rotates in an application, screens designed for a specific orientation won't accidentally rotate, protecting the user experience and productivity.

## **CREATE APPLICATIONS THAT ARE AVAILABLE — ONLINE AND OFFLINE**

Users that connect to a Wi-Fi wireless LAN or a cellular network have one thing in common — there will most likely be brief periods throughout every workday where they wander out of coverage. While other web applications are not available during those periods, RhoElements allows you to build web applications that remain available, even during occasional lapses in wireless network coverage. Since there is simply no impact on application availability or performance, users are unaware and unaffected as devices lose and regain their connection, keeping your workforce productive every minute of the day.

## **WRAP IT ALL UP IN AN EASY-TO-USE FAMILIAR APPLICATION DEVELOPMENT ENVIRONMENT**

In order to support multiple operating systems today, you need experts on staff for each platform. Since RhoElements applications are OS-independent, you only need to master and maintain expertise in that single programming protocol — the cost of maintaining resources with expertise in different programming languages and technologies is eliminated. This straightforward programming language can be easily adopted by your current development team. And if you need a developer, since HTML5 is the latest generation of the worldwide standard for web development, there is already a large development community available.

# THE BENEFITS

RhoElements lets you get more value out of your applications, your Motorola mobile computers, your network — and your employees.

## **ENABLE A MIXED-OS ENVIRONMENT — COST-EFFECTIVELY**

You get the freedom to choose the device that will best serve the task set and maximize worker productivity. One application version runs on many types of devices, so you no longer need to filter your mobile device selection by operating system to control application development and management costs.

## **REDUCE APPLICATION COSTS**

Since there are fewer application versions to develop and deploy, application development, maintenance and management costs are dramatically reduced.

## **REDUCE PROGRAMMER COSTS**

Support for the standard HTML5 programming protocols eliminates the need for expensive specialists who know multiple programming languages.

## **IMPROVE MOBILE COMPUTER ROI**

Because you can utilize each and every feature on every device, along with its attached peripherals, and it takes less time to get applications up and running on multiple device types, you get a faster return-on-investment (ROI) on your Motorola mobile computers.

## **DRAMATICALLY IMPROVE APPLICATION ROI**

Your applications are literally future-proof, able to run on new devices and new operating systems. And since you can easily add features to meet new business needs or take advantage of new technology, your applications can serve your organization for decades, driving application ROI to a new high.

## **REDUCE END-USER TRAINING COSTS**

End-user training requirements are substantially reduced. When a worker knows how to use a Rho Elements-based application, the knowledge transfers to other devices. For example, a store associate may use an ET1 during the day to service customers, occasionally accessing your inventory application to scan a bar code and check stock as well as price. That same associate might use that same application on an MC9190-G gun-style mobile computer to process incoming shipments or take inventory.

## **IMPROVE APPLICATION PERFORMANCE — AND EMPLOYEE PRODUCTIVITY**

With RhoElements, you'll achieve a dramatic improvement in the performance of applications on your mobile devices. Employees will no longer spend time waiting for data or screens to refresh, increasing productivity and minimizing frustration.

## **MINIMIZE THE IMPACT ON YOUR NETWORK**

Since RhoElements applications require very little bandwidth, you can easily launch the mobile applications you need without incurring costs to upgrade your wireless and wired network. And since your existing network can support more applications, you get more value out of your existing technology investments.

## **DRIVE YOUR APPLICATION COSTS DOWN AND GET MORE OUT OF YOUR MOTOROLA MOBILE COMPUTERS WITH RHOELEMENTS OS-AGNOSTIC APPLICATIONS.**

For more information, visit [www.motorolasolutions.com/RhoElements](http://www.motorolasolutions.com/RhoElements)

Or access our global contact directory at [www.motorola.com/enterprisemobility/contactus](http://www.motorola.com/enterprisemobility/contactus)

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INCREASING CONFUSION AND  
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**SAY HELLO TO EASE OF  
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DEPTH AND COST SAVINGS.**

**MOTOROLA RHOELEMENTS**  
BROCHURE

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