



## Company Success ← Story

### Solution-at-a-glance

palmOne, Inc.

In October 2003 Palm, Inc. and Handspring merged to create palmOne. When two sophisticated engineering organizations come together, the integration requirements for their development processes are of the utmost importance. Coverity's Professional Services team delivered.

#### Industry:

Handheld Computers and Accessories

#### Business issue:

Integrate an automated source code analysis solution into a complex system of development and build processes.

#### Results:

Coverity's Coverity Prevent enabled palmOne to implement an automated code-analysis process to detect and fix defects before they reach the field.

### Contact Information

palmOne, Inc.  
400 N. McCarthy Blvd.  
Milpitas, CA  
95035

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*Mitch Allen, Director of Software, palmOne*

### palmOne Challenge

palmOne develops mobile applications for several types of mobile phone equipment such as email or calendaring. Application quality and time to market are critical within a highly competitive industry.

**Coverity Prevent™** was used to inspect all new mobile applications developed by palmOne. "Within hours we found critical defects that needed to be corrected. Coverity Prevent had an immediate impact on our product quality," stated Mitch Allen, Director of Software at palmOne.

Coverity Prevent works closely with native compilers to create an intermediate representation of a customer's code base that can then be analyzed on a nightly basis to find critical, crash-causing bugs in the source code. Instead of a single compiler, palmOne required Coverity Prevent to work with four distinct compilers. In addition, Coverity Prevent needed to be integrated with a third-party IDE.

### Why Coverity?

Handspring, an early adopter of Coverity's technology, introduced Palm, Inc. to the Coverity team. After seeing the ease of use, the quality of the defects detected, and the low false positive rate, it was an easy decision for palmOne to expand the license and fully integrate Coverity Prevent into palmOne's entire development process. In addition, Coverity offered the only solution in the market that could scale to palmOne's complex and large code base.

Coverity Prevent detects a wide range of defects out of the box without ever running the code. Unlike other tools that require intensive manual effort to isolate defects, Coverity Prevent pinpoints the root cause and precise code location of each crash-causing defect while achieving a low false positive rate.

A key feature of Coverity Prevent is its ability to integrate with any build environment without any changes to the code, build scripts, or existing processes. Coverity Prevent automatically retargets to each new code base, using patent-pending techniques to analyze custom interfaces and coding conventions. Additionally, users can create custom checkers, using **Coverity Extend™** software development kit, to find defects that are unique to their code.

## Coverity Prevent™ Implementation

Coverity worked with palmOne to seamlessly and transparently integrate Coverity Prevent into palmOne's build process. Working with many different compilers and a variety of build technologies, Coverity Prevent was nimble enough to analyze palmOne's source code without any user intervention. With Coverity Prevent fully integrated into the build process, palmOne can find and correct defects before they reach the field.

"Our build system is rigorous and sophisticated through the use of four different compilers and a combination of command-line and point-and-click build systems," Allen stated. "Coverity's deployment team was one of the best we've seen in the valley. They helped us fully automate our code-analysis process."

## Results

Coverity's deployment team ensured that palmOne realize the maximum value out of Coverity Prevent. A fully automated source code analysis tool that can seamlessly integrate with some of the most sophisticated development environments will continue to help palmOne find and correct defects before they reach the customer.

## About palmOne, Inc.

palmOne, Inc. delivers what matters most to customers -- whether a single consumer or company of thousands -- enabling users to improve their personal lives and professional productivity through mobile devices and solutions.

palmOne is the name adopted in October 2003 by Palm, Inc., when it spun off PalmSource, Inc., maker of the Palm OS(R) platform software, and acquired Handspring, Inc. Uniting the Zire™, Tungsten™ and Treo™ subbrands, the creation of palmOne launched a new, stronger market leader in handheld computer and communications hardware and software solutions. More information about palmOne, Inc. is available at [www.palmOne.com](http://www.palmOne.com).

## About Coverity

Since 2002, Coverity Inc. has provided source code analysis solutions that are a leap forward for software engineers who build reliable, secure systems. Based on years of research at the Computer Systems Laboratory at Stanford University, Coverity Prevent is now providing customers such as **Juniper Networks, Veritas Software, Synopsys, Inc., palmOne, Inc., and nVidia Corporation** a revolutionary way to build more reliable code while simultaneously shortening the time to market.



**Coverity Prevent in action:**  
<http://linuxbugs.coverity.com>  
<http://www.coverity.com>

Coverity Inc. Headquarters:  
Coverity, Inc.  
185 Berry St. Suite 3600  
San Francisco, CA 94107  
(800) 873-8193  
[sales@coverity.com](mailto:sales@coverity.com)

Coverity Inc. Regional offices:  
Boston:  
7 Rantoul St. #209  
Beverly MA 01915  
Phone: 978-922-3860