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Handspring, VMware, Others Select *Deduce* for Analyzing Complex Code

February 2, 2004 — Menlo Park, Calif. — Handspring (now part of PalmOne), VMware, Sanera Systems (now part of McDATA), Inkra Networks, and YottaYotta, Inc. have all selected **Deduce**, the new source code analysis tool from Coverity, Inc., to comprehensively test complex code for software errors including memory corruption, resource leaks, buffer overflow, and illegal pointer accesses. All companies went through Beta testing with **Deduce**, and found it to be the fastest, most complete way to reduce testing costs, improve software reliability and security, speed time to market and reduce cost of ownership for the end user.

Dr. Stephen A. Herrod, senior director of engineering for VMware, said that his company has always defined enterprise-class reliability and security as their top priorities. “With Coverity’s **Deduce** offering, we have found several problems that would have been difficult or impossible to catch using traditional tools and techniques,” Herrod commented. “And we find these problems early in the development process when they are cheaper to address.” Herrod also said that VMware now runs **Deduce** on their entire source tree. “We consider it a vital tool to maintaining the level of quality our customers have come to expect,” he noted.

“The improvement in software quality is the number one reason we went with Coverity,” said Joseph Chamdani, co-founder and vice president, systems integration of Sanera Systems. “By attacking from structural analysis instead of run-time, **Deduce** gives us extra assurance in verifying the difficult-to-exercise code paths — the ones that are very hard to test, but may pop up at a customer site.”

Running on all major platforms, **Deduce** detects defects at compile time as soon as they are introduced and gives a precise report of the root cause and location of each error. It runs as a companion to the nightly build as well as on each developer’s desktop. **Deduce** is the *only* software analysis tool that:

- Catches defects at compile time, during the development phase (not at run-time, during integration testing, or in production)
- Detects a wide range of defects, including several classes of bugs that other tools cannot
- Scales to millions of lines of code within a small fraction of the build time
- Examines every path through the code rather than a few representative paths
- Reports the root cause of each error, including the complete path to each reported error
- Produces very few false positives, allowing developers to rely on the results of the tool
- Discovers company-specific defects through customization
- Requires no manual testing, code modifications or changes to existing build processes
- Retargets to each new code base automatically, adapting transparently to company-specific interfaces and coding conventions
- Finds complex defects using interprocedural dataflow analysis, automatic abstraction, and statistical inference techniques

"SWAT has capabilities beyond other test tools," said Bob Petersen, software manager at Handspring/PalmOne. "The tool found bugs that we did not find through our usual test procedures. We know it's saved us time and we anticipate it will save us money."

Deduce is based on patent pending source code analysis technology developed by a team of researchers headed by Dr. Dawson Engler, professor of computer science at Stanford University. At present, **Deduce** is available for analyzing C code. It will soon be available for C++ and Java.

About Coverity: Coverity was founded in November of 2002 by Prof. Dawson Engler and a team of computer scientists from Stanford University. Customer-funded from its inception, Coverity has gained rapid traction bringing state-of-the-art source code analysis solutions to market. Coverity's headquarters are in Menlo Park, California. For more information on Coverity and **Deduce**, see <http://www.coverity.com>.

About PalmOne: PalmOne, formally Handspring, is a leading innovator in personal communications and handheld computing. The company's products include the Treo wireless smartphones and client and server software for fast Web access from handheld devices and mobile phones. The company is based in Milpitas, California.

About VMware: VMware, Inc. is the global leader in virtual machine software for Intel-based systems. With more than 5,000 customers worldwide and 80% of the Fortune 100, VMware provides companies with a proven set of enterprise products and solutions to consolidate their server infrastructure, improve software lifecycle management and provide application compatibility in mixed operating system environments. VMware is based in Palo Alto, California and conducts business in more than 100 countries worldwide.

About McDATA: The Sanera Systems division of McDATA Corporation, based in Broomfield, Colorado, provides highly scalable and reliable enterprise storage networking solutions. McDATA's *mscale* Architecture is the first to deliver multi-dimensional, on demand scalability of fabrics, ports, protocols, speeds and storage services within a single system.

About Inkra Networks: Inkra Networks' Virtual Service Architecture™ (VSA), including the Virtual Service Switch™ (VSS) and Center Point™ Management Suite, offers the most adaptable and cost-effective network security, business continuity, and performance architecture in the industry. The VSA offers elastic functionality and scalability, enabling corporations to deploy, adapt, and grow network security and infrastructure as needed in real time, with far less budget, time, and effort than using appliances. Inkra Networks is headquartered in Fremont, California.

About YottaYotta, Inc.: Based in Kirkland, Washington, YottaYotta enables intelligent globally distributed (SAN) storage solutions. By combining heterogeneous storage, supercomputing, and distributed coherency, YottaYotta changes the data availability and storage management paradigm.