



NEWS RELEASE

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BIO-key® International, Inc. Reports Nearly Perfect Operational Performance Results for Top Hospital and Leading Testing Services Provider

Data Confirms Industry Leading Position for Finger ID Technology

Wall, NJ, December 12, 2011 – BIO-key International, Inc. (OTCBB: BKYL.OB), a global leader in fingerprint biometric identification solutions and advanced mobile identification technology, today reported that BIO-key's software solution for authentication and identification and the BIO-key patented biometric algorithm have delivered operational success rates between 99.34% and 100% for one of the top rated hospitals in the U.S. as well as a leading global provider of testing services..

During the month of November 2011, BIO-key implementation engineers and the technology team at a leading hospital analyzed three month's operational logs tracking the authentication results at the hospital's campus. As expected, zero false matches were observed. The measure of performance therefore focused on how often an authorized user was incorrectly rejected by the software. The staff used BIO-key technology to authenticate users 251,447 times, achieving a true accept rate (correctly authenticating a user) of 99.34%. Incredibly, one staff member logged on 5,999 times in November without a single rejection - a perfect 100% success rate. These real-world results redefine performance expectations for the fingerprint authentication industry by significantly improving on traditional false rejection rates. By replacing the software, but reusing the hardware, BIO-key allowed this customer to repurpose hundreds of already deployed fingerprint sensors. BIO-key's scanner interoperability also offers flexibility for the hospital to offer diverse fingerprint scanners to users as utilization grows, thus future proofing the technology process.

In a second case, BIO-key software has been in production for two years enrolling and duplicate checking candidates taking a high-stakes international graduate school examination. BIO-key software was utilized in over 200 simultaneous locations and achieved a 99.4% success rate for over 186,000 new enrollments at a sustained rate of 400 transactions per minute. These remarkable results demonstrate that BIO-key's platform can be operated by a wide variety of staff, in many locations and can only enhance overall system performance.

“We are extremely pleased with these results, and the positive reaction from our customers,” stated Mike DePasquale, BIO-key’s CEO. “In healthcare there is no room for error, especially when physicians need to be focused on prescribing the proper treatments and medications to their patients, not cumbersome log-in procedures. With authentication reduced to a swipe their finger, clinicians can focus on patient care, instead of accessing systems. The most recent results validate that BIO-key is offering significant end-user efficiency improvements to innovative healthcare systems.”

“As for BIO-key’s results in the second case scenario; as evidenced in the recent scandal surrounding SAT testing proxy fraud there has been increased awareness around the credibility of academic and licensure testing. By biometrically ensuring the identity of the person sitting for the exam, and detecting identity fraud in real-time, BIO-key technology provides a security measure which simply can’t be equaled or exceeded by any other commercially available solution,” mentioned DePasquale.

“There are many security solution options in the market but none offer the convenience, accuracy and scalability that BIO-key’s VST and WEB-key products deliver and our marquee partners are continuing to realize the benefits of the many years investment to develop and mature our offerings. We are the only finger biometric software solution available today that works across every operating platform and every device from desktop, laptop, tablet and smartphone from a single enrollment. This is a mandate to drive wide adoption of any security offering and we have that available and deliverable today ready to integrate into any application,” stated Mira LaCous, BIO-key VP of Technology and Development.

About BIO-key

BIO-key International, Inc., headquartered in Wall, New Jersey, develops and delivers advanced identification solutions to commercial and government enterprises, integrators, and custom application developers. BIO-key’s award winning, high performance, scalable, cost-effective and easy-to-deploy biometric finger identification technology accurately identifies and authenticates users of wireless and enterprise applications. Our solutions are used in local embedded OEM products as well as some of the world’s largest identification deployments to improve security, guarantee identity, and help reduce identity theft. BIO-key’s technology is offered directly or by market leading partners around the world. (<http://www.bio-key.com>)

BIO-key Safe Harbor Statement

Certain statements contained in this press release may be construed as “forward-looking statements” as defined in the Private Securities Litigation Reform Act of 1995 (the “Act”). The words “estimate,” “project,” “intends,” “expects,” “anticipates,” “believes” and similar expressions are intended to identify forward-looking statements. Such forward-looking statements are made based on management's beliefs, as well as assumptions made by, and information currently available to, management pursuant to the “safe-harbor” provisions of the Act. These statements are subject to certain risks and uncertainties that may cause actual results to differ materially from those projected on the basis of these statements. These risks and uncertainties include, without limitation, our

history of losses and limited revenue, our ability to develop new products and evolve existing ones, the impact on our business of the recent financial crisis in the global capital markets and negative global economic trends, our ability to attract and retain key personnel and our ability to complete the proposed acquisition of S.I.C. Biometrics Inc. as currently planned. For a more complete description of these and other risk factors that may affect the future performance of BIO-key International, Inc., see “Risk Factors” in the Company’s Annual Report on Form 10-K for the year ended December 31, 2010 and its other filings with the Securities and Exchange Commission. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date made. The Company also undertakes no obligation to disclose any revision to these forward-looking statements to reflect events or circumstances after the date made or to reflect the occurrence of unanticipated events.