



BIO-key Granted U.S. Patent for Accelerating Biometric Searches Using Adaptive Indexing

Enables Faster Searches and Positive Identification for Biometric Databases of all Sizes

Wall, NJ, July 27, 2018 - [BIO-key International, Inc.](#) (NASDAQ: BKYI), an innovative provider of biometric authentication and security solutions, today announced it has been issued **U.S. Patent 10,025,831, "Adaptive Short Lists and Acceleration of Biometrics Database Search."** The patent protects BIO-key's method of quickly and iteratively searching a database of biometric records. The method utilizes one or more scans of the database with potentially varying index parameters, narrowing the field of biometric record candidates on each pass. This 'short list' indexing approach powers BIO-key's unique advantage in delivering cost-effective one-to-many fingerprint identification solutions that avoid the costly and computer-intensive brute force scans typically required to search biometric databases.

The adaptive biometric indexing technology covered by this patent is utilized today in BIO-key's core Vector Segment Technology ("VST") biometric algorithm and is integrated into the Company's WEB-key and ID Director suite of solutions.

Large-scale Automated Fingerprint Identification Systems (AFIS) like that used by the FBI were once the exclusive province of big-budget agencies and enterprises. However, today BIO-key's highly accurate, large-scale, one-to-many identification capabilities can be cost effectively deployed to deliver a critical underpinning of trust and fraud-resistance for every biometric system, while also providing a faster, more convenient user experience.

One-to-many biometric authentication enhances trust and fraud-resistance by ensuring that each individual has one and only one enrolled identity, as multiple identities are a common source of errors and fraud. When activated as part of BIO-key's enterprise user authentication solutions, this quick and accurate indexed identification capability delivers a better user experience, finding and positively identifying a user with a single biometric reading. BIO-key has a well-documented track record performing indexed one-to-many searches in real-time against some of the world's largest databases, including those with well over 100 million records.

Mira LaCous, BIO-key's Chief Technology Officer, commented: "Accurate and efficient one-to-many biometric identification is the cornerstone of secure identity and authentication services. Unless an identity platform detects and prevents duplicate enrollments, first-party and synthetic identity fraud remain as significant threats. Device-only enrollments cannot be cross-checked for uniqueness, leaving systems vulnerable to fraud."

LaCous added, "Our newly patented indexing method is also highly adaptive, making it suitable for processors found in personal devices, servers - both on-premise or in-cloud, as well as for leveraging massively-parallel GPUs found in today's graphic and computation accelerator cards."

About BIO-key International, Inc. (www.bio-key.com)

BIO-key is revolutionizing authentication with biometric solutions that enable convenient and secure access to information and secure high-stakes transactions. We offer alternatives to passwords, PINs, tokens, and cards to make it easy for enterprises and consumers to secure their devices as well as information in the cloud. Our premium fingerprint scanning devices offer market-leading quality, performance and price. BIO-key also brings the power and ease of use of biometric technology to its [TouchLock line](#) of biometric and Bluetooth enabled padlocks – providing even more ways to BIO-key your world!

BIO-key Safe Harbor Statement

All statements contained in this press release other than statements of historical facts are "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 not guarantees of future performance or events and are subject to risks and uncertainties that may cause actual results to differ materially from those included within or implied by such forward-looking statements. These risks and uncertainties include, without limitation, our ability to develop new products and evolve existing ones, customer and market acceptance of biometric solutions generally and our specific offerings, our ability to expand sales within existing customer relationships, our ability to raise additional capital, and our ability to attract and retain key personnel. 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, 2017 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 undertakes no obligation to disclose any revision to these forward-looking statements to reflect events or circumstances after the date made.

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