

## West Virginia Biometrics and Identity Management Newsletter

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Issue Date: January 25, 2010

### MorphoTrak Acquires Innovative Tattoo Matching Technology from Michigan State University

**Exclusive License for Tattoo Matching Technology Represents Successful Partnership of University and Industry**



ALEXANDRIA, Va. & EAST LANSING, Mich., Jan 19, 2010 -- MorphoTrak (Safran Group) is pleased to announce the acquisition of a unique tattoo matching technology developed by Michigan State University (MSU). With this innovative technology, the corrections and law enforcement community will now have the capability to accurately and efficiently search tattoo image databases to identify suspects, criminals and victims. This content-based image retrieval and matching technology uses features such as color, shape, and texture present in tattoo images instead of labels or keywords, to compute the similarity between images. "It's good to see this type of technology being made available to law enforcement agencies. I have seen the initial successes achieved by the National Gang Targeting, Enforcement & Coordination Center, the National Gang Intelligence Center, and the National Capitol Region AFIS system in linking subjects via tattoos. With the increased awareness of the value of matching tattoos for suspect and victim identification as well as associating tattoos to particular gang affiliation, automatic image retrieval and indexing capabilities are likely to be integrated into the FBI's Next Generation Identification (NGI) system later in this decade to serve as another valuable tool for the criminal justice community," explained Peter Higgins of Higgins and Associates, International and former Deputy Assistant Director in charge of the FBI's IAFIS program.

<http://www.marketwatch.com/story/morphotrak-acquires-innovative-tattoo-matching-technology-from-michigan-state-university-2010-01-19?siteid=nbkh>

### PhoneFactor Offers Three-Factor Authentication Using Voice Biometrics

**Integrated Voiceprint Verification Services Enable Heightened Security Without High Costs**

OVERLAND PARK, KS, Jan 19, 2010 -- PhoneFactor, a leading global provider of multi-factor security services, announced today the availability of biometric verification for its phone-based authentication platform. By leveraging an existing voice channel, the new offering simultaneously verifies something you have, your telephone, and something you are, your voiceprint, for the second and third factors of authentication. With IT security threats at an all-time high, utilizing three separate factors to authenticate user access is more than a best practice. For many organizations, it is a necessity. However, in most cases a biometric reader, such as a fingerprint scanner, must be installed on each end user's system. The cost and IT resources required to purchase and deploy biometric readers created an often insurmountable challenge.

<http://www.marketwatch.com/story/phonefactor-offers-three-factor-authentication-using-voice-biometrics-2010-01-19?siteid=nbkh>

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## **Head: Putting a finger on which biometrics are handy today**

If access control systems are to control where people — not credentials — can and cannot go, then only a biometric device can truly provide this capability. That's why more and more biometrics readers are showing up in access control systems. How do you determine the right biometric technology for you?

Before getting specific, let's discuss two important topics relating to biometrics that are somewhat intertwined: a one-to-many match vs. a one-to-one match and privacy issues. An important distinction must be made between "identification" — a one-to-many match, and "verification" — a one-to-one match. A system designed to "identify" a person compares a biometric presented by a person against all biometric samples stored in the database. The one-to-many system identifies the individual if the presented biometric matches one of the many samples on file. This type of system is used by the police to identify criminals.

<http://www.securityinfowatch.com/head-putting-a-finger-which-biometrics-are-handy-today>

## **Identity Self-Defense: The Power of PIV**

Identity protection is one of the most pressing topics within our society. Over the course of the last few years, we have seen numerous stories reported where information systems have been compromised and data has been lost potentially compromising the identity of millions. While we could debate the level of security required to properly protect any information system, I believe there is a more fundamental approach to addressing this critical issue; Identity self-defense. In the months following the September 11 attacks on New York and Washington D.C., it was determined the issue of identity verification needed to be addressed. Homeland Security Presidential Directive 12 (HSPD12) established the requirement to verify the identity of all federal employees and issue them a secure identity credential. This has resulted in the issuance of millions of Personal Identity Verification (PIV) credentials.

<http://blogs.govinfosecurity.com/posts.php?postID=389>

## **Face, fingerprints, iris details on unique ID**

To minimize errors in biometric identification, the UID Authority of India, which is in the process of creating the world's largest biometric database, has decided to use as many as three distinct identification features while allotting a unique identity number to every resident of the country. The UIDAI has decided to use iris scans, face scans and all 10 fingerprints together to ensure that system errors in identifying a resident was brought down to absolute minimum in Indian conditions. The decision was taken after a sub-group under the Biometric Committee, which was set up last September, analysed data quality of over 250,000 fingerprints collected from 25,000 people from Delhi, Uttar Pradesh, Bihar and Orissa by different agencies using different devices and operational processes.

<http://www.indianexpress.com/news/Face--fingerprints--iris-details-on-unique-ID/568033>

## **RISE Biometrics Consortium Ethics and Security Dialogue Attracts Global Audience in Hong Kong**

Westfield, NJ - The 3rd International Conference on Ethics and Policy of Biometrics and International Data Sharing held in Hong Kong on January 4-5, 2010, attracted an audience of policy makers, industrial players, and others in examining the key issues facing nations, commercial organizations, and citizens as biometric systems become commonplace and the movement of data across borders becomes more difficult to manage and control.

<http://www.findbiometrics.com/industry-news/i/7677/>

## High risk for biometrics

While the use of biometric technology in the workplace is on the rise, the absence of privacy laws means employers run the risk of violating employees' privacy, says law firm Bowman and Gilfillan.

While the Protection of Personal Information (POPI) Bill has not been signed into law, the use of biometric systems has risen in both the private and public sectors. Despite the lack of laws governing personal information, the SAPS have already mandated the roll-out of fingerprint ID switches, which will impact on access to personal information. Recruitment companies are also adopting biometric systems and many private firms are increasingly using the technology as a security and access control measure. Senior associate at Bowman and Gilfillan Lusanda Raphulu says that, since laws are not in place, employers will have to be guided by the provisions in the POPI Bill when dealing with employees' personal information.

[http://www.itweb.co.za/index.php?option=com\\_content&view=article&id=29405:high-risk-for-biometrics&catid=182:legal-view](http://www.itweb.co.za/index.php?option=com_content&view=article&id=29405:high-risk-for-biometrics&catid=182:legal-view)

## Dataset of the NIST Multiple Biometric Grand Challenge

Tokyo, Jan 20, 2010 -- NEC Corporation (NEC; TSE: 6701), a global leader in networking, communications and information technology, announced today that its face recognition technologies ranked number one in the Still-Face Dataset of the Multiple Biometric Grand Challenge (MBGC, \*1) carried out by the National Institute of Standards and Technology (NIST), commissioned by the U.S. Department of Homeland Security. NEC's face recognition technology has solidified an industry-leading position by attaining this first place ranking among all major vendors. The facial images evaluated by the Still-Face Dataset were taken by high resolution digital cameras under a variety of challenging conditions, including compressed images used for IC passports, and images taken under poor indoor lighting or direct sunlight. These situations were designed based on anticipated real-world scenarios, and test results have demonstrated high quality performance. The preliminary results of the challenge can be found at: [http://face.nist.gov/mbgc/2009/FACE\\_V2\\_FINAL.pdf](http://face.nist.gov/mbgc/2009/FACE_V2_FINAL.pdf).

<http://www.hexus.net/content/item.php?item=22001>

## Can You Authenticate Me Now?

Identification protection firms drew attention to themselves last week, as multi-factor authentication company PhoneFactor launched a "triple authentication" product that uses the sound of a consumer's voice for phone verification; and MasterCard announced a deal with Arcot that expands its Chip Authentication Program and provides users with an app that can run on mobile phones. PhoneFactor is making biometric verification for phone-based authentication available to banks, government agencies, healthcare firms and other businesses. Users execute a transaction online, then are called by the institution if that transaction is considered high risk based on the institution's policies— similar to many dual authentication techniques. Only in this case, the voice also serves as a third way to identify the consumer. "With two factor, we refer to what you have and what you know," says Steve Dispensa, CTO of PhoneFactor. "With biometrics, it's also what you are. In this case it's your voice."

<http://www.americanbanker.com/bulletins/-1006143-1.html>

## **FBI introducing new systems to keep tab on terrorists**

Washington: In the aftermath of the botched Christmas day al Qaeda attempt to blow up an American plane, the Federal Bureau of Investigation (FBI) is introducing several anti-terror tools into its system to prevent re-occurrence of such terror strike, a top official of the agency has told US lawmakers.

"To meet our national security mission, we have expanded our counter terrorism operations and honed our intelligence capabilities," FBI director Robert Mueller said in his testimony before the powerful Senate Judiciary Committee. Learning lessons from the December 25 experience, the FBI is also making a number of improvements to its information technology systems.

<http://www.zeenews.com/news597691.html>

## **Research In Motion Getting Serious About Finger Print Scanning for BlackBerry Devices?**

Just when you thought your BlackBerry could not get any more secure, it would appear that it may, soon enough. According to a patent that we've been given, which was filed on February 26, 2009 and updated on January 12, 2010, it clearly defines the implementation of finger print scanning technology.

The devices used in the figure drawings may seem a little archaic, but we do recall hearing about Research In Motion working on this for many years. Could we see finger print scanning technology in a future BlackBerry device? The chances are very likely, especially given the re-issuing of the patent and new details pertaining to the way RIM plans on implementing it onto mobile devices.

<http://www.bbleaks.com/2010/01/research-in-motion-getting-serious.html>

## **Biometrics for Batteries**

Every morning when Rick Long enters his office at the Enersys Energy Products facility in Warrensburg, Mo., he is reminded of how much of an improvement the new Panasonic Iris Recognition access control system is over the old card system. There are no lines, no fumbling with cards and no individuals entering on the heels of another's card swipe. He also knows the building and its occupants are much safer and more secure. As Network Systems Manager for Enersys Energy Products, Long was tasked with researching options to replace the company's card-based access control system and determined that biometrics was the way to go. Working with its system integrator, Electronic Supply Co. Inc., Enersys evaluated several forms of biometric security products, including fingerprint readers and iris recognition systems.

<http://www.securityinfowatch.com/biometrics-batteries>

## **Face recognition ability inherited separately from IQ**

CAMBRIDGE, Mass. — Recognizing faces is an important social skill, but not all of us are equally good at it. Some people are unable to recognize even their closest friends (a condition called prosopagnosia), while others have a near-photographic memory for large numbers of faces. Now a twin study by collaborators at MIT and in Beijing shows that face recognition is heritable, and that it is inherited separately from general intelligence or IQ. This finding plays into a long-standing debate on the nature of mind and intelligence. The prevailing generalist theory, upon which the concept of IQ is based, holds that if people are smart in one area they tend to be smart in other areas, so if you are good in math you are also more likely to be good at literature and history. IQ is strongly influenced by heredity, suggesting the existence of "generalist genes" for cognition.

[http://insciences.org/article.php?article\\_id=8141](http://insciences.org/article.php?article_id=8141)

## New biometric passports introduced

The old passport was replaced by a new biometric passport in Croatia on Monday 18, 2010. The new passports comply with EU security standards utilizing standardized biometrics such as facial and fingerprint recognition. Personal identification numbers are included in the new passport as well. Croats will pay 390 kunas (53 Euros) or, on an expedited basis, 630 kunas (86 Euros) for the new passport. The passport, valid from five to ten years, may be obtained at any police station. The old passport will be valid until expiry. Croatia is the third country in Europe to introduce such a passport with France and Germany being the first two countries.

[http://www.croatiantimes.com/news/General\\_News/2010-01-18/8363/  
New\\_biometric\\_passports\\_introduced](http://www.croatiantimes.com/news/General_News/2010-01-18/8363/New_biometric_passports_introduced)

## Meeting and Conference Dates

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### Winter 2010 Biometrics Summit

Attend the longest running, world renowned forum for advanced identification solutions including...Finger Print Technology, Iris Recognition, Smart Cards, and Vascular Biometrics. There will be over 20 innovative speakers who will share strategies and experiences in implementing biometrics. Register by December 8<sup>th</sup> to receive a discount.

**Dates:** February 22-25, 2010

**Location:** Miami, FL

[http://www.aliconferences.com/conf/biometrics\\_summit\\_winter10/index.htm](http://www.aliconferences.com/conf/biometrics_summit_winter10/index.htm)

### WVBI to Host Forum with FBI Assistant Director on March 2nd

The West Virginia Biometrics Initiative will host a forum with FBI Assistant Director Daniel D. Roberts on March 2, 2010, at 3pm at the WVHTF Research Building auditorium, Fairmont, WV. Roberts leads the FBI's Criminal Justice Information Services (CJIS) Division in Clarksburg, WV, and will be providing an update on CJIS activities, as well as his thoughts on the future directions of biometrics and identity management. No reservations are required. Contact WVBI Executive Director Mike Kirkpatrick at (304) 594-9004 or [mdkirkpatrick@wvbiometrics.org](mailto:mdkirkpatrick@wvbiometrics.org) to have any questions answered.

### ISC WEST

Join end-users of security, system integrators, dealers/installers and manufacturers from around the world at the one event that connects the entire security industry. ISC West 2010 is your best resource to discover the newest products from leading manufacturers, training and education tailored specifically to your needs, and unlimited networking opportunities. When it comes to security, ISC West is everything you need in a single event. As the only security event to be recognized in 2009 as one of the Fastest 50 Growing Tradeshows in North America, ISC West is the most valuable and efficient way to reach the entire security market and position your business for growth in 2010.

**Dates:** March 23-25, 2010

**Location:** Las Vegas, NV

<http://www.iscwest.com/>

## Biometric Technology for Human Identification Conference

Conference chairs include: B. V. K. Vijaya Kumar, Carnegie Mellon Univ., Salil Prabhakar, DigitalPersona Inc., and Arun A. Ross, West Virginia Univ.. Discussions on topics including face analysis, fingerprint analysis, large-scale system security and privacy, statistical modeling and evaluation, iris and emerging biometrics, soft biometrics and forensics, multimodal biometrics, and face and ear analysis. Register by March 19<sup>th</sup> to receive a discount.

**Dates:** April 5-6, 2010

**Location:** Orlando, FL

[http://spie.org/app/program/index.cfm?fuseaction=conferencedetail&export\\_id=x12502&ID=x6770&redir=x6770.xml&conference\\_id=900601&event\\_id=894275&programtrack\\_id=900569](http://spie.org/app/program/index.cfm?fuseaction=conferencedetail&export_id=x12502&ID=x6770&redir=x6770.xml&conference_id=900601&event_id=894275&programtrack_id=900569)

## Procurement News

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**Sponsoring Agency:**  
Department of the Army

**Response Date:**  
February 28, 2010

**Solicitation Number:**  
W15QKN-10-X-0347

**Description:**

The U.S. Army, Army Contracting Command (ACC), Joint Munitions & Lethality (JM&L) Contracting Center, Picatinny Arsenal, NJ 07806-5000, on behalf of the U.S. Army Armament Research Development and Engineering Center (ARDEC) is conducting market research to locate interested sources capable of providing information in the field of Biometrics. The U.S. Fire Control Systems Technology Division is requesting information regarding the field of Biometrics, including all products, services, technology, ideas, concepts, prototypes, and research. Primary interests lie in the following categories: Standoff Identification, Target Acquisition & Assessment, Base & Checkpoint Security, Border Control, Detainee Operations, Forensics & Intelligence, Algorithm Development, Threat, Event & Situational Awareness and Artificial Intelligence/ Neural Networks. Additionally, research, development, and ideas are welcomed in biometric fields other than those listed above.

<https://www.fbo.gov/index?s=opportunity&mode=form&id=8b96054865da199b5de5794733febea8&tab=core&cvview=0>

West Virginia Biometrics Initiative  
714 Venture Drive # 193  
Morgantown, WV 26508-7306  
[www.wvbiometrics.org](http://www.wvbiometrics.org)

Questions or comments, please email us at:  
[mdkirkpatrick@wvbiometrics.org](mailto:mdkirkpatrick@wvbiometrics.org)



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