

CryptoMetrics uses biometrics to identify potential threats to nations' critical infrastructures

Used by the United Arab Emirates, CryptoMetrics critical infrastructure protection products discretely capture facial images of persons passing through border controls to identify possible threats

Fast facts

Corporate profile

Since 2000, CryptoMetrics has been providing additional layers of security for governmental organizations and private companies. Using biometric technologies, methods that identify humans based on physical traits, CryptoMetrics products accurately identify persons of interest.

Why Ottawa

Ottawa is the most highly educated city in Canada. Over 25% of Ottawa residents hold a university degree, with 14% achieving Masters degrees and/or PhDs, according to The Corporate Knights 2007 Ranking of Canada's Most Sustainable Cities.

Business advantage

In August, 2008 CryptoMetrics installed the world's first Wanted Persons Face Recognition System in the Abu Dhabi International Airport in United Arab Emirates. Using the TrustedWATCH® system, images of travelers are recorded and compared to a national database of persons of concern. The system will be expanded throughout the UAE to all airports and border entry points over the coming months. "Border security has entered the 21st century with the deployment of this technology," said CryptoMetrics Chief Strategy Officer, Joel Shaw.

CryptoMetrics Inc. is using its biometric technology to protect critical infrastructures, including border entry points, airports, transportation systems, key public buildings and facilities. Since 2000, CryptoMetrics has been providing additional layers of security for governmental organizations and private companies. Current customers include the UAE Ministry of Interior, Taiwan Bureau of Consular Affairs, New Zealand Department of Internal Affairs, United States Army, Philippines Department of Immigration, German Federal Criminal Police, Portuguese Frontier Guards and Ministry of Foreign Affairs and the United Kingdom Passport Services. CryptoMetrics, with corporate presence in Canada and the United States, has its technology development centre located at the heart of Ottawa's high tech community in Kanata, Ontario.



Canada's Innovation Capital

Biometric technologies identify humans based on physical characteristics. Using biometrics, CryptoMetrics face and fingerprint recognition products, TrustedWATCH® and FingerSure™, allow government and company officials to accurately identify persons of interest.

Facial recognition is the fastest growing segment in the biometrics market. TrustedWATCH® captures and processes images from live video, photos and image databases. Identifying key facial marks, such as centres of the eye sockets, the tip of the nose and corners of the mouth, TrustedWATCH® creates a 3D orientation of the face. The image is then compared against local or remote image databases to identify possible threats.

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CryptoMetrics patented technology is currently being used in many of the World's largest airports, including the Philippines and the United Arab Emirates.

FingerSure™ verifies identity with a touch of a finger, using advanced algorithms to ensure the highest identity accuracy from fingerprints. FingerSure™ also provides a central location for securely storing fingerprints.

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This high number is achieved in part because of Ottawa's three major post-secondary institutions: University of Ottawa, Carleton University and Algonquin College. Combined, all three schools have 55,000 students enrolled in the 2008/2009 academic year.



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Business advantage

Close up or at a distance, CryptoMetrics TrustedWATCH® Scene Processors (bespoke cameras) discretely take upwards of 20 images per second. As soon as the images are taken, TrustedWATCH® automatically locates the facial images of persons in the image, isolating images of all persons simultaneously. Images of individual persons are sent to a local or remote TrustedWATCH® Protection Manager to accurately identify if the person is of concern.

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Future growth plans

To expand the impact of its Wanted Person Face Recognition System, CryptoMetrics is looking to partner with governments and key private sector organizations to ensure maximum protection for a Nation's, as well as the World's, critical infrastructure.

CryptoMetrics is also adding to its Ottawa workforce and is currently accepting resumes from project managers, quality assurance specialists and software engineers.

Contact information

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