

SentryCom receives patent for CryptoBiometrics technology, applies it for Transaction Verification.

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SentryCom receives US patent entitled "Biometric-based system and method for enabling authentication of electronic messages sent over a network". This novel binding of Crypto and Biometrics technologies enables Online Transaction Verification.

It is well known to security software professionals that Biometrics is not a secret and Cryptographic keys are difficult to manage. Fraudsters are exploiting these weaknesses.

We have proven that it is possible to overcome them by binding Cryptography and Biometrics. US patent No. 7,689,832 provides a framework for CryptoBiometrics™ that can be summarized as following:

"A network based mechanism for real time verification and authentication of data and user identities. The present invention enables a method whereby biometric elements, such as voiceprints, are utilized to enhance the Public Key Infrastructure as a means to decrypt data and verify data authenticity, such that the user's private key is authenticated remotely on a one-time basis. The present invention comprises an authentication server with various software modules that enable authentication of user identity, secure user access to data, digital signatures, secure messaging and secure online transactions."

This novel binding of state-of-the-art Cryptographic and Biometrics technologies has been successfully applied to mission-critical Online Transaction Verification.

Online Transactions include filling Web-Forms and submitting them using browser communication channel. For example:

1. Third-Party Money Transfer in Banking,
2. Credit-Card purchases in E-Commerce,
3. Insurance Claims filing,
4. Drug Prescriptions signing,
5. Electronic Voting,
6. Any other web-based mission-critical activity.

All these applications require that What You See Is What You Sign, i.e. transaction content integrity assurance. In addition these applications require that the person authorizing transaction will be authenticated in real-time. They also require that signed transaction will not be modified afterwards.

Currently widespread problem of Banking Trojans caused US Banking regulators to issue recommendation that business bank customers to "carry out all online banking activity from a stand-alone, hardened, and locked-down computer from which e-mail and Web browsing is not possible."

Related report from research firm Gartner Inc. warns that " Security measures such as one-time passwords, smart-cards, biometrics and phone-based user authentication, considered among the most robust forms of security, are no longer enough to protect online banking transactions against fraud."

SentryCom CryptoBiometrics™ successfully resolves this problem by providing a software solution to the problem. This solution creates secure communication channel between client PC and authentication server, irrespective of insecure environment. VoiceProof® Transaction offers important distinctive features:

1. It is clear that malware prevention is failing and our computers are infested. Therefore software must show resilience to malware attacks and do its job in any environment. To this end VoiceProof® Transaction software solution provides adequate protection for critical infrastructure, even in the presence of malware.
2. Ease of integration is a must. Enterprises can use their existing infrastructure and add VoiceProof® Transaction software on top of it. It can be easily scalable from low- to medium- to high risk transactions.
3. User convenience is utterly important. Many transactions end up in transaction repudiation and

customer's dispute. VoiceProof® Transaction software provides users with transaction receipt for future audit.

4. Customers may choose Software-as-a-Service or "On Premises" installations. Smaller customers can use VoiceProof® Transaction as Software-as-a-Service delivered by our MACS – Managed Authentication & Crypto Service. Larger customers can use VoiceProof® Transaction delivered as "On Premises" licensed software.

The following link demonstrates how user performs third-party money transfer:

http://www.sentry-com.net/files/2FA_demo2.swf

This particular demo includes transaction content integrity confirmation, 2-factor strong authentication and resulting signed transaction upload. Bank receiving signed transaction will proceed with authorizing it.

The following link demonstrates how signed transaction is audited by bank or by user:

<http://www.sentry-com.net/files/TransactionVerification.swf>

This particular demo includes opening signed transaction, showing transaction signatory information and transaction content signed.

For additional info please contact us using:

<http://www.sentry-com.net/contactus.html>

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SentryCom is a provider of solutions for Identity Fraud prevention, including transaction verification, using proprietary and patented Strong Authentication and Crypto technologies. SentryCom drastically reduces the revenue losses due to Identity Fraud - and at the same time reducing the current cost of Identity Fraud prevention. SentryCom provides MACS - Managed Authentication & Crypto Service for Enterprises , delivered as SaaS. SentryCom also provides "on Premises" installations for very large customers.

SentryCom has developed a number of technologies, products and solutions for Banking, Health Care, Insurance, E-Gov, E-Commerce verticals as well as cross-industry Extended Enterprises. SentryCom solutions provides Secure Remote Domain Access, Web Portal Access, Secure File Sharing, Digital Signature, Online Transaction Verification, Secured Cloud Storage, etc.

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