Watchful Keep IT secret.

TypeWATCH
e-biometrics security

IS YOUR INFORMATION SAFE?

ADVANCED PERSISTENT E-BIOMETRICS

Biometric systems are rapidly gaining attention as users struggle to figure out how to leverage this technology to secure enterprise systems. The reason is obvious.

History has shown that simple passwords are easily 'hacked', copied, and stolen, making breaches a regular occurrence.

Increasing computer crime is spawning a need for more effective ways of securing systems, such as complex passwords, tokens, etc., and users are required to generate new passwords and keys at even shorter intervals.

However, biometrics by their nature require expensive and complex hardware systems to 'read' the biometric pattern, be it palm scan, iris scan, etc; this makes them unworkable for the majority of applications.

What if, however, there were a way to leverage biometrics without the need for such complicated hardware?

E-BIOMETRICS: THE NEXT STAGE IN SECURITY

e-Biometrics is a silent revolution in personal security. It offers continuous identity verification that the user is who they claim to be, as it recognizes a person by the way he/she types on a keyboard.

Through the advanced keystroke dynamic algorithms, it strengthens the security linkage of the human user's connection to his digital identity.

This is possible as each user has a way of typing that is as unique as a fingerprint. This process, known as muscular memory, is responsible for the human user's consistency in typing well-trained key sequences.

Typing is a learned characteristic influenced by distinctive neurophysiological factors distinct to each individual, which means that every user develops unique finger motions for typing the various combinations of keys.

By accurately identifying specific users's 'digital fingerprint', this biometric profile can be compared to the incoming keystroke stream and confirm if the user is who they claim to be.

TYPEWATCH: E-BIOMETRICS FOR THE ENTERPRISE

TypeWATCH is an Advanced Persistent e-Biometric solution that continuously monitors for fraudulent access attempts, by developing a unique 'digital fingerprint' for authorized users by analyzing FREE TEXT typing patterns of the user.

As a result, it provides continuous security post-login and secures the entire user system session, by means of a real-time and persistent e-Biometrics solution.

When an intruder is detected, TypeWATCH automatically applies the defined security policy and deploys mitigation actions which are monitored and audited for compliance purposes. These can include 'challenge' passwords, system alerts, or complete system shutdown.

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TypeWATCH is completely transparent to the user. It is designed to run in the background, constantly analyzing the typing rhythms and patterns produced by the legitimate users in their daily routine (never asking for dedicated text input). It provides constant vigilance as the user writes emails, edits documents, and uses applications, without impacting how one normally uses the system.

TypeWATCH has no hardware requirements, such as expensive and complex biometric readers. Hence it is simple to deploy and easy to maintain.

TypeWATCH does not register the content of what is being typed. It is a statistical analysis tool that learns the legitimate user's typing behavior solely through the recording of his unique typing rhythms and patterns (timing measurements).

TypeWATCH offers a comprehensive set of Monitoring and Auditing capabilities for compliance purposes, to allow you an electronic forensic tool to use in the even to suspected unauthorized access attempts.

THE ULTIME AUTHENTICATION FACTOR

Contrary to standard password hardening methods which are a 'one time only' attempt at security, **TypeWATCH** is constantly vigilant, always validating identity when one is writing an e-mail, working on a Spreadsheet, or creating a PowerPoint or Word Document, for example.

Organizations that need to ensure constant vigilance, that there systems are only being used by authorized users, will benefit greatly from **TypeWATCH**. Key industries include Finance, Government, Defense, Energy, and Healthcare.

KEY REASONS WHY TYPEWATCH

- ✓ The extraordinarily high accuracy rate makes it virtually impossible to mimic another person's free typing pattern;
- ✓ The advanced persistent security nature is constantly comparing the free typing samples against a dynamic pattern it stores of the legitimate user;
- ✓ TypeWATCH accommodates a changing work environment, as it can dynamically offset for tiredness, switching or sharing of computers / keyboards, mood, influence of alcohol and medications, etc, and sets individual thresholds to every user to increase performance;
- ✓ Deployment is simple as there is no special hardware needed as with other biometrics, a standard keyboard is sufficient;
- ✓ TypeWATCH supports flexible policies as to mitigation actions to be taken (alert security, lock the system, as for a 'challenge' password, etc.);
- ✓ Provides auditable forensic trail as an intruder can be identified by means of matching the typing sample against the profile database.

Visit our website today at www.watchfulsoftware.com for more information, or to request a free demonstration version of **TypeWATCH**.

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