

Security at Fingertips

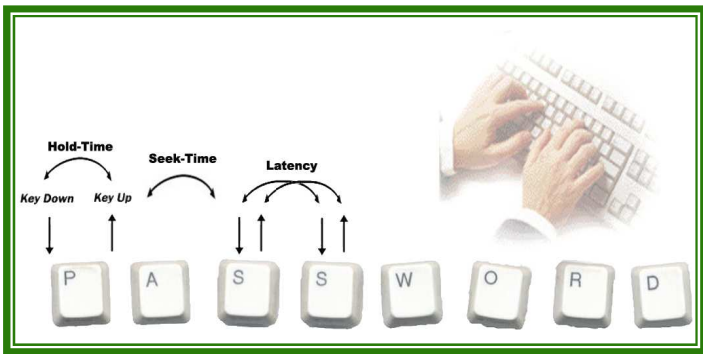
TypeSense™

You are how you type

TypeSense is a software-only authentication solution based on typeprint recognition that uses keystroke dynamics to accurately identify a user by the way they type characters across a keyboard. Unlike fingerprint and voiceprint solutions that require a special hardware reader or scanner, TypeSense does not need to install any new hardware – it works with the standard computer keyboard.

Typeprint is a statistically unique signature created from the typing patterns of a person. Like fingerprint and voiceprint, typeprint can also be used as a biometric signature to uniquely identify and verify a person. Typeprint recognition is based on the science of Keystroke Biometrics.

The keystroke biometric technology provides dependable, immediate and unobstructed access to online accounts at any time and any place. It is handy, reliable, low-cost, easy to implement and use.



The Science of Typeprint Recognition

Keystroke dynamics is based on the distinctive characteristics found in typed sequences of characters. These distinctive features include the duration for which keys are held and the elapsed time between successive keystrokes.

Scientific research has proven that Keystroke Biometric is reliable and accurate. In 1980, A National Bureau of Standards (NBS) study concluded that keystroke biometric authentication achieved at least 98% accuracy. Since then, the technology of keystroke biometric has further improved to the level that is comparative to other biometric solutions such as fingerprint and voiceprint.

Advantages

- Only biometric authentication solution that can be changed or reset
- Only biometric authentication solution that's completely transparent to the user
- Only biometric authentication solution that does not require special hardware
- Only biometric authentication solution that can be instantaneously deployed to millions of users
- No software installation is needed
- No specialized hardware sensor or device is needed: the keyboard is the sensor
- Non-invasive behavioural biometric: more accepted by users than invasive physical biometrics
- Flexible Enrolment: Provides immediate or gradual enrolment.
- Auto-Correlative Training: Improves the quality of training samples
- Adaptive Learning: Increases strength with every successful login
- Very accurate: Almost no false acceptance
- User friendly: The solution works in the background as if it did not exist.
- Low cost: Easy to deploy, easy to manage.

Biometrics	FAR*	FRR*
Fingerprint	~0%	~1%
Voiceprint	~1.6%	~1.8%
Typeprint	~0.01%	~3.0%

*FAR—False Acceptance Rate

*FRR— False Rejection Rate

