

safeX™ BioToken©

Safe and comfortable authentication and identification by keystroke dynamics

Show me how you type and I'll tell you who you are – this is the concept of safeX™ BioToken©.

safeX™ BioToken© allows authentication and identification of persons on the basis of their typing on a usual keyboard. This principle is based on the **characteristic keystroke dynamics of every person**. Even identical twins can be distinguished.

For authentication a short typing text is checked against stored data. Different features like dwell time on keys, speed of using the keys and even the way of correction show a special user identity, which is ready for productive use after a short training.

With every login a text is typed, serving as identity proof where everybody is identified, no matter if one writes with the ten-finger typing system or uses only two fingers.

What is it needed for?

When choosing access control, companies were confronted with a trade-off between safety and costs – choosing the favourable PIN/TAN protection or using expensive sensor technology for biometric solutions. With keystroke biometrics the advantages of both methods can be combined – safeX™ BioToken© provides **best security against third party access, combining existing keyboards with the safety of biometric methods**.

Benefit

safeX™ BioToken© provides a high safety level – at least as high as other biometric methods - offering several advantages in addition. Since no further equipment is required, it is inexpensive to buy. For integration into the existing IT landscape only low organisational effort is required. It is available on every workstation immediately. Depending on the safety level required, the method is scalable by changing the text length.

There are various fields of application: in company networks **forgotten passwords will not create costs anymore**. safeX™ BioToken© provides a web based **password reset** in self service – saving time and therefore costs for helpdesk and staff. safeX™ BioToken© can be used in combination **with or instead of a password for the login** at the computer workplace. A typed text to which the keystroke dynamics are added can identify the author of the text (e.g. secure e-mailing). This can also be used for the protection of **remote access to the company network**.

These application examples give an impression of the possible usage of safeX™ BioToken©. Via interfaces it can easily be connected to any application, adapted to different fields of application and individual requirements.

ADVANTAGES OVER OTHER METHODS OF AUTHENTICATION

- as biometry without sensor fully operational at all time **on every working place**
- cheap method of authentication, since **no further equipment** is required
- **scalable security** by changing the text length
- in **compliance** with data protection – no storage of sensitive personal data required
- **no copy/theft**
- **can't get lost/can't be forgotten**