

Tricerion SafeLogin

Product Description

Tricerion's innovative SafeLogin product provides Strong Mutual Authentication for accessing services such as online banking, e-commerce, ASP services, online communities, VPN, VoIP, and any other network accessible service that requires user authentication.

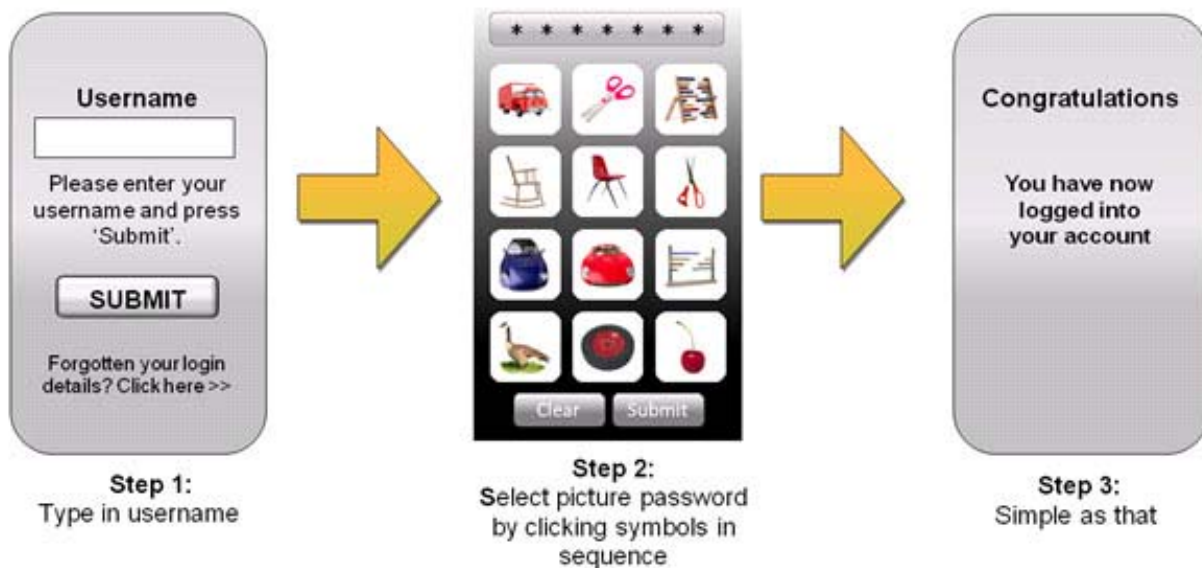
Tricerion's approach to online authentication complements existing offerings and works well as part of a multi-layer solution. It enhances both actual and perceived security, without impairing user experience.

SafeLogin - out with unsafe passwords, in with picture passwords

Picture Passwords work just like conventional passwords - a sequence of symbols known only to the user, to be reproduced at login time

Personalised Input Keypad

- every user's keypad is unique so mass phishing attacks based on fake generic login pages are ruled out
- this is **mutual authentication**: it is only possible to disclose a password if the service already knows which symbols you need in order to enter your password



Password is Not Typed

- No typing means no susceptibility to keystroke logging, Trojan viruses. The password never exists in digital form outside the service provider's firewall

One-time Keypad

- key positions are shuffled for each presentation, making this a one-time keypad, so even sophisticated cursor-tracking Trojans are defeated

Difficult to Write Down

- picture passwords are much harder to write down, so users are less likely to self-disclose

Easy to Recall

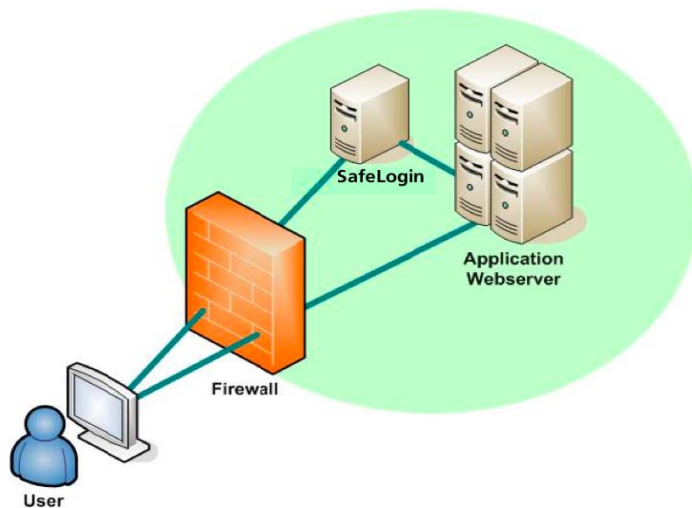
- experiments show that picture passwords use a different part of the brain, and are harder to forget than text passwords

Enforcing Password Policy

- SafeLogin returns the values of the image locations: the user clicks on their pictures in the correct sequence
- Your password policy can be enforced by SafeLogin

SafeLogin - Easy to Install

- 100% server-side deployment
- Installed as an easy add-on to existing services - no deep integration required
- Highly saleable, supports:
 - Clustering
 - Multi-site deployment
 - Failover



Castleforce IT Consultancy Ltd

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User Friendly Ultra-Low Adoption Impact

- Zero-footprint – no tokens to carry or software to install on user machine
- Migrate users to SafeLogin solution, retaining existing passwords
- No systems admin required, uses existing
- No additional database – uses Active Directory

Keypad Picture Password Entry

- Highly memorable
- Highly visible – reassures nervous users of site security
- Highly usable – no user explanation or training required

Disability-Friendly

- Highly accessible for visually challenged users

SafeLogin - Look and Feel

Keypad themes can reflect and reinforce corporate branding



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SafeLogin - Out-Performs Alternatives

| | Conventional Login | PKI | Password-Generating Token | Tricerion SafeLogin |
|--|--------------------|-----|---------------------------|---------------------|
| Simple interaction Nothing special for user to do at login | ✓ | ✓ | ✗ | ✓ |
| Simple logistics Easy account setup | ✓ | ✗ | ✗ | ✓ |
| Zero-footprint Nothing for user to carry or install | ✓ | ✗ | ✗ | ✓ |
| Low cost | ✓ | ✗ | ✗ | ✓ |
| Security and usability aligned | ✗ | ✓ | ✗ | ✓ |
| Mutual authentication | ✗ | ✓ | ✓ | ✓ |
| Protects against dictionary attacks | ✗ | ✓ | ✓ | ✓ |
| Protects against pharming attacks | ✗ | ✓ | ✓ | ✓ |
| Protects against phishing attacks | ✗ | ✓ | ✓ | ✓ |
| Protects against keystroke logging Trojan virus attacks | ✗ | ✓ | ✓ | ✓ |
| Protects against registration robots No need for CAPTCHA images | ✗ | ✓ | ✓ | ✓ |

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