

One-Time Authentication Code



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One-way Dynamic Unique Identification Authentication Code

Challenges

A cyber-attack takes place somewhere around the world once every 39 seconds. As a result, there were 8 billion pieces of sensitive personal information being leaked to the market in 2019. These all cost the global economy a staggering \$2.9M every minute in 2020. But WHY does this happen?



Solutions

Based on the world's first one-way dynamic authentication technology, swIDch's OTAC technology combines advantages of the three most common authentication systems - user ID/passwords, RSA hardware · software for generating authentication codes, and tokenisation. This provides a solution that is more efficient and more effective than any of these elements individually.





Unbelievable cost saving No need to build heavy token infrastructure.

algorithm code

• Vulnerable to leakage/exposure by Static value

• User authentication is impossible with OTP only

• Communication required between User and server (Pull & Push)







authentication



integration through API/SDK



- No need to communicate with Server
- Real-Time changes every time for Secure authentication
- Non-reusable One-Time Authentication

Why OTAC?

Proposing a new paradigm of identification and authentication between users and devices, OTAC transcends the limitations of existing authentication technology and provides a whole new authentication experience. Even in an environment with no network connection, we can supply single-use, nonreusable, dynamic codes that can identify and authenticate between users and devices.

Technology	Overcoming breach of information and illegal reuse issues	User Identification by code only	Single channel network environment (additional network communication not required)	Chances of duplication with other users 0%
OTAC	\checkmark	\checkmark	\checkmark	\checkmark
ID & Password	Х	\checkmark	\checkmark	\checkmark
OTP	\checkmark	Х	\checkmark	Х
SMS	\checkmark	Х	Х	Х
ARS	\checkmark	Х	Х	Х
Token	\checkmark	\checkmark	Х	Х
FIDO(Biometrics)	Δ	\checkmark	Х	\checkmark

Use Case

swIDch's OTAC provides one-way, dynamic user-user, device-device, and user-device identification and authentication in an algorithm as a service (AaaS), supporting the development of innovative products and services embedded with robust authentication security.



