



Echidna

Supported Security Tokens



Echidna supports Security Tokens that are comprised of contemporary authentication methods and 2FA security tokens based on Open Standard OATH, SMS OTP, and Mobile security tokens; with additional support for proprietary 3rd-party tokens.

Echidna is an enterprise grade Security Platform developed by Salt Group to support a range of high availability, high volume and high assurance security services in banks, government departments and enterprises globally.

Echidna is agnostic to the authentication methods and provides wide support for a range of standard, proprietary and brokered methods, for example:

- Open Standard OATH – hardware security tokens that are compliant to the OATH HOTP, TOTP or OCRA standards.
- Echidna Mobile tokens that are standalone OTP mobile Apps that are supported across a range of mobile devices and platforms, including but not limited to Android, iOS, Blackberry and Symbian.
- Proprietary security tokens such as RSA SecurID and Vasco tokens through proxy authentication requests to third party servers.
- “Second Channel” one time passwords delivered to a user via SMS or email.

Echidna provides a solution that allows an organisation to adopt new authentication mechanisms as they emerge, without expensive retrofit or system remediation.

Two-factor authentication (2FA) generally relies on user knowledge of a secret such as a password or PIN value

together with user possession of a security token or mobile phone. Echidna provides the flexibility to support the different combinations that may be required in various situations.

- If the security token itself is PIN protected, there is usually no need for additional user passwords or PINs.
- If the security token or OTP messaging channel is not PIN protected, the password from the user store can be used to provide the ‘knowledge’ factor. Echidna supports validation of Active Directory (AD) or LDAP passwords via LDAP binding, and stored encrypted or hashed passwords for database backed user stores.

The second factor would be the one time password generated by the security token or sent via the messaging channel.

The Echidna supported mechanisms can be combined in a flexible manner to support a diverse user base with multiple mechanisms, and even support individual users with multiple available mechanisms.

Migrate from RSA tokens

Echidna can delegate authentication of RSA SecurID tokens to existing RSA authentication servers while new security tokens or other 2FA methods are introduced. This allows a low risk migration away from proprietary RSA SecurID tokens and ACE servers allowing the existing RSA tokens to be gradually replaced as they naturally expire.





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SMS Gateways

Echidna inter operates with HTTP Invoked Gateways to send SMS OTPs. SMTP Gateways are also supported for sending passwords and OTPs via email.

Echidna has been certified with the following HTTP Invoked SMS Gateways:

- Clickatell
- Soprano
- Esendex
- Message Media

Echidna Mobile

Echidna Mobile tokens enable MFA through the use of mobile phones to generate OTP, C/R, Transaction Signing credentials.

Echidna Mobile options include –

- mCode – Mobile App that generates time and event based OTPs, Challenge/Response – akin to hardware security tokens except on mobile devices
- Push OTP – Mobile App receives transaction summary and server generated OTPs through the Push Network
- SMS OTP – Mobile phone receives transaction summary and server generated OTPs sent to the mobile number
- mSign – Mobile App receives transaction summary and the central authentication policy through the Push Network, and generates Signature Codes based on the required central policy

Echidna has been certified with the following Open Standard OATH hardware tokens:

EZIO Lava

Gemalto EZIO Lava security tokens offer an ultra-compact design, splash proof, time or event based OTP generation, configurable OTP length (6 to 8 digits).

Size / Weight : 55 x 25 x 9 mm / 11 gr
Display : 24 x 6.6 mm
Battery : 1 * CR2032, no mercury no lead no Cadmium, lifetime 5 years



EZIO Pico

Gemalto EZIO Lava security tokens offer an ultra-thin and compact design, OTP generation and Challenge/Response, configurable PIN and PUK functions.

Size / Weight : 70.1 x 44 x 34.1 mm / 15 gr
Display : 1 line of 8 numerical digits with graphical symbols
Keypad : 10 numerical keypad, 1 confirmation key, 1 correction key.
Numerical key '1','2','3' can be used as function key
Battery : 1*CR2016 no mercury no lead no cadmium, lifetime 5 years

YubiKey Standard

OATH automatic entry OTP generation, platform & browser independent, no client software required. Practically indestructible; waterproof, crush safe, no battery.

Material : Hermetically sealed plastic
USB contact ; Hardened Gold
Size / Weight : 18 x 45 x 3 mm / 2.5 gr

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