



# Echidna

## Security Platform



*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 a Security Platform that provides a single trust anchor for organisations to authenticate user identities across a variety of contexts and channels.

Echidna Security Platform is a collection of Authentication Services, Inbound Connects, Mobile Tokens, and OATH Security Tokens that are combined to provide convenient out-of-the-box solutions to cater for different requirements and application use of the Echidna Security Platform.

### **Cryptographic Services**

Echidna Cryptographic Services are a central authentication service that enables a solution for multi-factor user authentication (MFA) that is simple to manage and deploy.

Echidna Authentication Services include –

- User Identity Authentication Services during the login process
- General Purpose Authentication Services
- Multi-method Security Authentication
- Rules-based enforcement of authentication methods and user resolution
- Token Lifecycle Management for Echidna Mobile and OATH Hardware Tokens
- Hardware Security Module for secure storage of sensitive assets such as passwords, token keys, shared secrets, SSL cert private keys
- Tamper evident audit logs
- Software Development Kit (SDK) to enable Echidna Mobile capability in existing and custom Mobile Apps

### **Connectors**

Echidna Connectors enable standards based interfaces for relying applications to use the Authentication Services. Echidna supports –

- RADIUS – Network Authentication Protocol (RFC 2865)
- WS-I SOAP – Web Services Protocol
- REST – RESTful API
- EAI – Enterprise Application Integration
- Forefront TMG – Microsoft Forefront Threat Management Gateway and ISA Servers
- Custom Connector Interfaces

Echidna's 'Brokering' capability enables proxy of authentication requests to 3rd party proprietary servers.

Echidna supports interface into Interchange AS2805 (ISO8583 equivalent) for payment transaction messaging.

### **Mobile Tokens**

Echidna Mobile tokens enable 2FA through the use of mobile phones to generate OTP, C/R, Transaction Signing credentials.

Echidna Mobile options include –

- SMS OTP – Mobile phone receives transaction summary and server generated OTPs sent to the mobile number
- mCode – Mobile App that generates time and event based OTPs, Challenge/Response and offline Signature Codes
- Push OTP – Mobile App receives transaction summary and server generated OTPs through the Push Network





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- 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

### Open Standard OATH Security Tokens

OATH Hardware Tokens enable 2FA through the use of specialised hardware security tokens to generate OTPs and Challenge/Response credentials.

Echidna supports Open Standard OATH hardware security tokens that are compliant to the OATH standard –

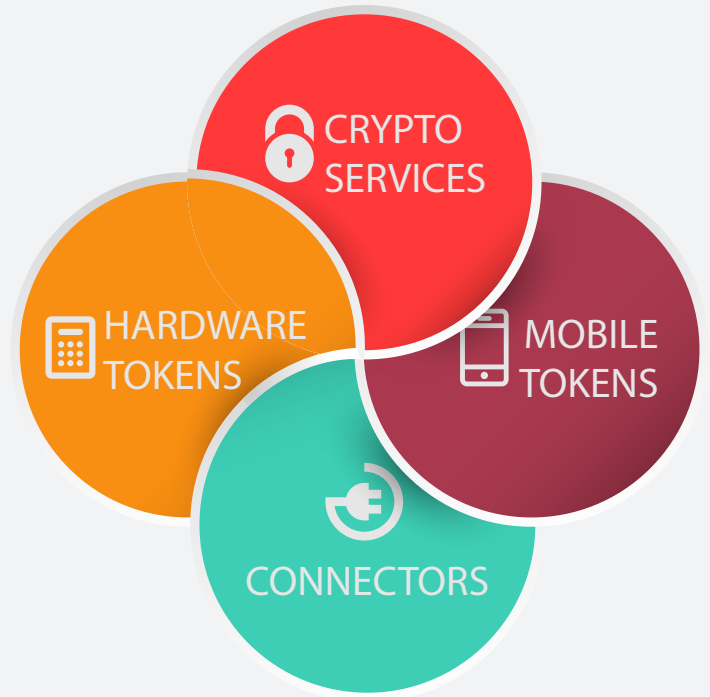
- HOTP – HMAC-Based One-Time Password (RFC 4226)
- TOTP – Time-Based One-Time Password (RFC 6238)
- OCRA – OATH Challenge-Response (RFC 6287)

### Product Solutions

Echidna Product Solutions are pre-selected combinations of Echidna components that have been pre-configured to provide convenient out-of-the-box solutions to cater for different contexts and application uses of the Echidna Security Platform.

Echidna pre-packaged solutions include –

- Remote Network Access for high assurance authentication of remote users connecting to enterprise networks via VPNs, Citrix gateways or other RADIUS aware access points.
- MFA Authentication Services for any organisation that has a need to provide a higher level of user and instruction authentication through utilising multi-factor methods such as mobile or hardware security tokens



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