

Mobile Security Solutions for Banks

A user friendly solution for two factor authentication to give customers and banks confidence that their funds are safe.

The background

Self service channels such as the internet or ATMs have made it much easier for banks to reach their customers any time; however these types of channels are inherently more open to security threats. The challenge for banks is how to ensure sufficient security, without inhibiting their customers' usage.

Regulatory pressure is coming on banks in some countries where central banks are mandating the implementation of second factor authentication solutions for internet banking customers.

Traditional physical hardware solutions for two factor authentication are costly to distribute and administer, do not necessarily mitigate against standard threats such as man in the middle attacks, and cause intense frustration for customers when denied internet banking access due to lost or forgotten tokens.

Fronde Anywhere's TwoSecure offers banks a secure and cost effective solution that enables remote provisioning of large numbers of users in real time with a two factor application that is stored on the mobile phone. TwoSecure can include Anywhere's alerting engine to enable a more comprehensive security service to consumers that includes SMS security alerts on unusual account and credit card transactions. TwoSecure is used by banks in Europe and Asia Pacific.

What is TwoSecure™?

TwoSecure is a downloadable java application for generating one time passwords (OTPs) on the mobile phone. TwoSecure provides a second factor of authentication for logging onto a network or website, or authorising a transaction.

TwoSecure can be deployed as a standalone product; or implemented as a holistic mobile security solution that includes fraud and security SMS alerting services on a shared Anywhere installation.

TwoSecure links each user's identity with their mobile device.



The solution

TwoSecure uses the mobile phone as the core device for providing two factor authentication at a fraction of the cost of traditional hardware tokens, without compromising on security.

Benefits

Proven Security	Reduce Costs	Customer Needs
<ul style="list-style-type: none"> + Mitigates against standard threats including phishing. + Transaction signing or challenge response to mitigate against man in the middle attacks. + Use of industry standard OATH compliant algorithms. + End to end security of distribution process. 	<ul style="list-style-type: none"> + Easy and cost effective to deploy and administer on a large scale. + No distribution costs - real-time provisioning and suspension of users. + Easy administration and management of users. + One installation can be shared for customers and staff. 	<ul style="list-style-type: none"> + Easier to use than hardware tokens, no additional hardware devices to carry or lose. + Secure access to Internet Banking when roaming. + Confidence that their money is safe. + Alerts about any unusual activity in their account.

Security with the Anywhere platform

- + for remote access to email and business networks and systems
- + for providing contractors or suppliers with real-time temporary network access
- + for providing agents with remote access to ERP systems

Staff

Channels

- + for consumers accessing internet banking or making high value payments
- + for business banking customers approving payments
- + in place of bank PIN for accessing ATM or any other bank channels



- + receive alerts about high value withdrawals or deposits, or any unusual behavior on your account
- + receive fraud alerts about any unusual transactions on your credit card
- + optionally receive OTP as SMS or email

Alerts

Payments

- + use a transaction signed OTP for validating any online payments
- + use an OTP in place of a PIN for point of sale (POS) credit or debit card payments

Solution description

TwoSecure is installed as part of the Anywhere platform. TwoSecure can be licensed as a standalone offering, or in conjunction with other Anywhere modules such as its alerting engine via a single installation. This approach reduces overall investment costs for the bank.

The system is designed for easy and flexible integration which allows banks to integrate its two factor authentication capability into any application or channel. Web services and radius server interfaces are included so it can also be used for staff remotely accessing corporate networks.

TwoSecure is easy and cost effective to administer via a web based administration console. Distribution costs for physical tokens generally comprise from 60% to 90% of the total cost of ownership; it supports remote provisioning and suspension of users in real-time which removes distribution costs and time.

The security model includes the same industry standard algorithms used for hardware tokens; with patent pending security of the application distribution process and the protection of the algorithm seeds on the phone.



Put your brand on your customer's phone.

Send your customers alerts to inform them of unusual transactions.

“Since we introduced the requirement for one time passwords for larger online transactions, incidents of customer fraud have virtually been eliminated.” CIO, Major Bank

About Fronde Anywhere

innovation : mobility : security : payments

Fronde Anywhere provides mobile payment and security solutions to banks, payment providers and mobile operators. The Anywhere platform is the only product that delivers secure mobile channel, payment and security services from a single system.

The Anywhere platform ensures unparalleled security for all mobile services by linking a specific user's identity to their mobile device. Fronde Anywhere's patent pending identity verification technology also underpins TwoSecure™ the award winning two factor authentication product module. This unique combination of services from one platform sets Fronde Anywhere apart from its competitors in both the mobile services industry and the identity management space.

The Fronde Anywhere team has been developing and delivering pioneering mobile solutions since 2001. Fronde Anywhere serves clients in Europe, Africa, New Zealand and South East Asia from its offices in London and New Zealand.

