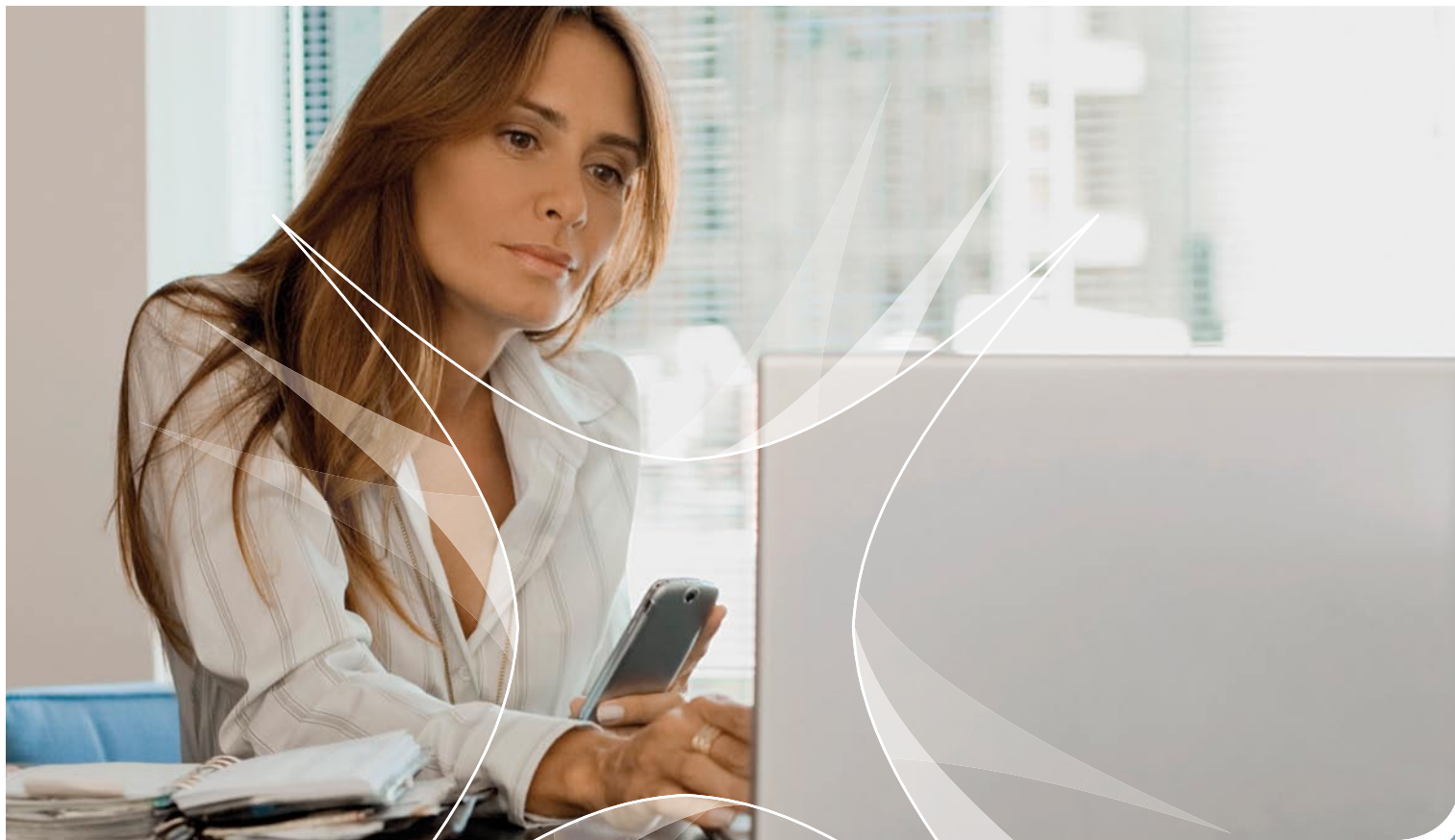


Allynis Mobile Authentication

|||| Strong Internet authentication for your customers



FINANCIAL SERVICES & RETAIL

ENTERPRISE

INTERNET CONTENT PROVIDERS

PUBLIC SECTOR

TELECOMMUNICATIONS > SOLUTION

TRANSPORT



gemalto
security to be free

Allynis Mobile Authentication

Strong Internet authentication for your customers

Security is at the top of everyone's agenda when using online services. The vulnerability of the traditional password is all too frequently exposed and two-factor authentication - coupling the PIN with some form of physical token - is increasingly popular with both digital service users and providers.

New opportunity for MNOs

Given the vast numbers of mobile phones already in consumers' hands, using the SIM to generate a One-Time-Password seems an ideal solution.

The consumer simply uses his familiar mobile phone, making it easy for banks, internet content providers and enterprises to deploy their own OTP token on an existing device.

This opens up a great opportunity for mobile operators to create additional value with new services that can be offered to subscribers or third parties. If mobile operators offer the online community a two-factor authentication device that is simple to implement and manage, they can position themselves at the heart of internet authentication.

Gemalto can help mobile operators implement an authentication solution that answers the needs of both subscribers and partners such as banks or internet players.

A win-win-win solution

Gemalto offers a solution which makes SIM-based two-factor authentication fast and simple to deploy. Our solution can mix SIM-OTP with other mobile-based OTP technologies to reach the entire subscribers base.

The business model is easily adapted to the needs of operators, Gemalto can offer a complete service for their customers.

Key solution components

At the heart of these services are:

- > A dedicated SIM-OTP application, which meets the security required by online services.
- > A complete service infrastructure with high quality Service Level Agreements for remote SIM-OTP token personalization and distribution.

Flexible deployment

- > New SIM cards will have the SIM-OTP application loaded and tested as part of the personalization process.
- > Cards already in the field, from any manufacturer, can be remotely upgraded Over The Air using our established hosted OTA infrastructure.

Operator benefits

Allynis Mobile Authentication Tokens Management Services place mobile operators right at the heart of Internet authentication:

- > **Revenue-generating service** - operators can now deliver a complete, mobile authentication service for third parties

- > **Low initial investment** - the whole solution is designed to be easily hosted and efficiently managed in Gemalto's data centers
- > **Rapid, simple deployment** - thanks to a managed services model
- > **Flexible service approach** - Gemalto acts as a supplier to the operator but can also be a business intermediary with banks and web portals
- > **Greater brand visibility** on the Internet
- > **Reduced churn** - putting the SIM at the heart of the authentication solution builds end-user stickiness.

End-user benefits

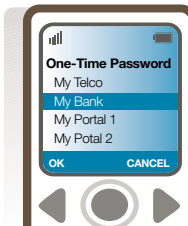
As far as the user is concerned, it could not be simpler:

- > **Convenient** - the familiar mobile phone is all that's required, and there is no need to change handsets
- > **Simple** - several network access accounts can be supported on the same SIM
- > **Easy and friendly** - no need to remember complex passwords.
- > **Secure** - a One-Time Password means strengthened security (2-factor authentication) and higher level of trust in the service provider.

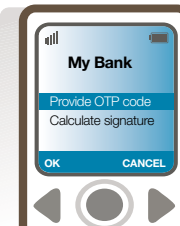
How does SIM-OTP work?



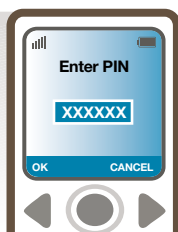
On the PC: The customer initiates a login session on one of his accounts



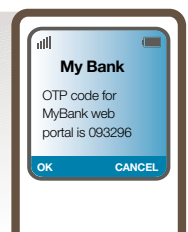
On the Phone: The customer chooses the web account he/she wants to log on to



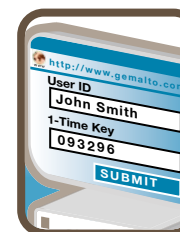
On the Phone: Request for an OTP password



On the Phone: Enter a PIN number to get the OTP delivered



On the Phone: The OTP code is delivered for the selected portal



Back on the PC: The customer reports the calculated OTP on the portal login wizard