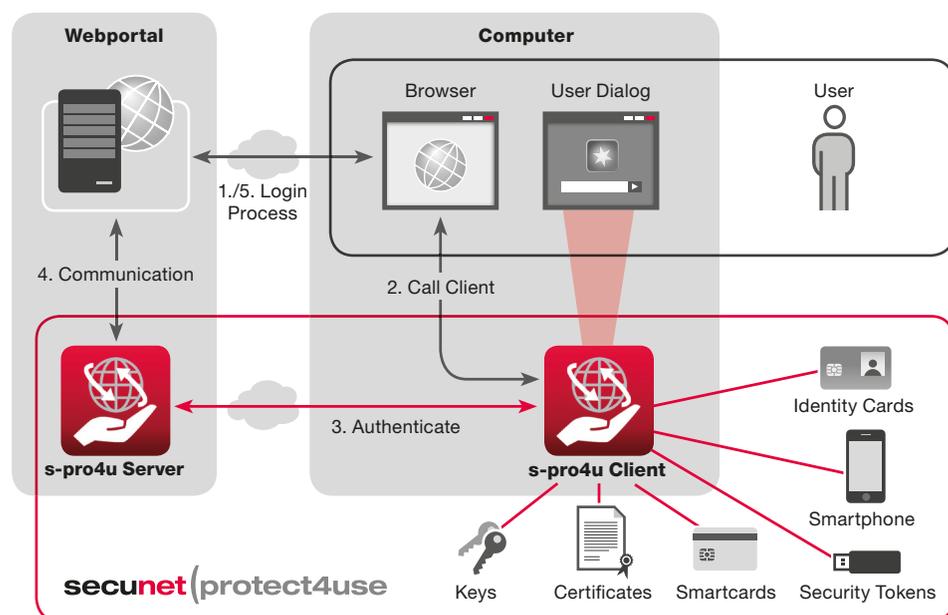# secunet(protect4use

Flexible and secure authentication solution for web portals and web services

Benefits:

>> **Identity data is entirely under in-house control**

>> **Easy integration into existing system landscapes**

>> **Flexible support for tokens, platforms and browsers**

The trend towards web and cloud applications has resulted in a wide range of portals and web services. secunet protect4use implements a user-friendly, secure method of authentication. This flexible client/server solution provides both the user and the service operator with a variety of options to log in, ranging up to secure multi-factor- and multi-channel-authentication. The identity data always entirely remains within the sphere of control of the service provider. secunet protect4use is browser- and OS-agnostic and allows the use of any token type supported by the platform in question. For this the solution makes use of a patent-pending method and allows not only for authentication but also for signatures and encryption.

User-friendly authentication

secunet protect4use offers an easy-to-use, intuitive GUI that standardises the use and management of different tokens. It is automatically launched when required in a manner that is transparent to the user and then closed again. The client, which is installed on the user's end device, provides the user with the ability to authenticate themselves securely with a web portal, web server or cloud application, for instance. During the login process, the s-pro4u client creates authentication data and sends it in encrypted form to the s-pro4u server. The user is then being authenticated on the server. If this is successful, the required information is sent to the web portal and the user is logged on.

High standard of security

secunet protect4use protects communication not only using standard TLS connections but also with the use of strong cryptography. In addition to simple login procedures, multi-factor- and multi-channel-authentication is also supported. The high level of security allows for a variety of potential uses, including authentication on local authority portals that enable citizens to convey information in a legally permissible manner, the triggering of remote signatures or the encryption and signing of data.

It also enables the implementation of secure access methods for employees and customer portals of electricity, telecommunication or

insurance companies using this authentication solution. In home banking scenarios, both the login process and the transaction confirmations can utilise secunet protect4use instead of TAN methods.

Flexible and independent

The secunet protect4use architecture is designed to be flexibly and individually adapted to the relevant needs, allowing even complex and comprehensive scenarios to be implemented with ease and speed.
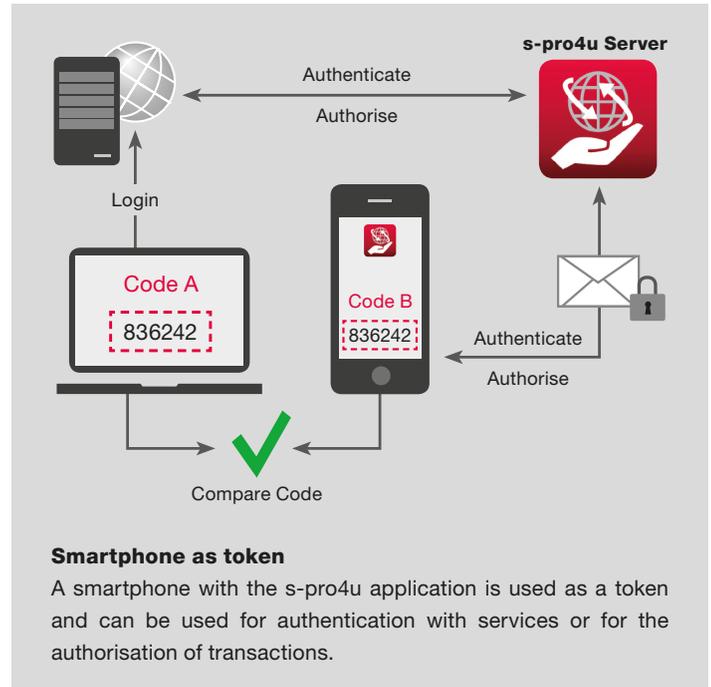
Various security tokens, including software tokens, USB tokens and smartcards are supported. On request, support for other specific tokens can also be implemented. Using the s-pro4u app on a smartphone, even the phone can be used as a token, in which case user verification is performed by entering a PIN or scanning a fingerprint, depending on the smartphone model.

secunet protect4use is both platform- and browser-agnostic. There is no service running in the background, no browser plugins are needed and there is no direct interface to the browser. This makes the solution entirely independent of the browser providers and update cycles.

The server/client communication and the integration of the web services are protocol-independent and enable rapid implementation and integration of new cryptographic protocols without the need to make any changes.

Forward-looking

■ **Modern user interfaces** – Easy and intuitive to use on any platform

■ **Transaction security** – Transaction authorisation using a smartphone or PC by means of simple confirmation or through the use of anti-tamper tokens (e.g. hardware-based tokens)

■ **Flexible registration process** – The registration process for new users is flexible in design. It can range from the integration of existing data to the initialisation of tokens to the use of previously provided registration secrets.

Smartphone as token
A smartphone with the s-pro4u application is used as a token and can be used for authentication with services or for the authorisation of transactions.

Ease of integration

The integration of secunet protect4use into an existing infrastructure is simplified considerably with the use of established protocol standards. Customisation is possible.

■ **Customisation** – s-pro4u client login experience can be customised according to specification.

■ **Future-proof** – secunet protect4use can be adapted to specific needs, new tokens can be incorporated flexibly, and new methods can be integrated quickly and securely.

■ **Universal** – The solution is suitable both for cloud applications and various hosting scenarios.

Features

Protocols	OpenID connect, SAML, XACML, SSO and more
Methods	Signature, encryption, two-factor authentication, multi-channel authentication and more
Platforms	Windows family, Linux, Mac, Android, iOS
Browsers	Internet Explorer, Edge, Chrome, Firefox, Opera and more
Tokens	Smart cards, smartphones, USB tokens, BLE tokens, SecureElement, NFC tokens, user name/password and more

More information:
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